

1027	9078	A	1977	3	1421	CLRRLLHEFGTRPPPTPLPSSPERERQESQP RLGNPKVSVSATLHGRLPSSFMGKVVKQQ MPVQYATYYPYPOYLQAKQTLVPAHMP APPSPTTSNDNHRVSISSNSRWDQLSRNTN LYIRGLUPPHTTDQDLVTKLCQPYGKIVIS TKGNFGIRTNNCKGYGFLDF*QPMQQ LKKAVSVALKASGSSSKWAKQQQDQV TNLYISNLALSMDEQELENMLKPPQVQV ISTRULRDSSGTSROVGFARMESTEKCE AVIGHFNGKUFIKUTPFGVSCPHRNLL/CV LSPAGWEGQEKGDRTPNKYIPNGRPWA *EEGRGETLGLTLT/YIDPTAAIJQNGF YPSYSIATNRMITQTSITPYIASTVHAFQ VQSPSWMWPQVQYLIHDGAVLTPSMEH TMSLQPASMSPLAQQMSHLSLCSTGTY MPATSAMQGAYLPQYAHMOTTAVPVE EASGQQQVAVETIFNDHDSPYTFOPNK
1028	9079	A	1978	2	1440	NSGPSSFMGKVVKQQMYPQYATYYP QYLOQA/KVVKWFAGNTK/*KGRVKRNKML VGWQTLT*ILLFLVGQKNQSLVPAHMPMA PPSPSTTSNNNNSSSSSNGWDOLSKTNL YIRGLPHTTDQDLVKLQCPYQGKIVSTK AILDKTINCKKGYGVDFDSPAAGAAQKA VSALKASGVQAQMAKQQEQDPTNLYIS NLPSMDEQELENMLKPFQVQVISTRILRD SSGTSRGVGFARMESTEKCEAVIGHFNG KFKUTPFGVSAUTEPILLCKFADGGQKCR QNPNKYIPNGRPWHRGEVRLAGMTLT YDPTAAJQNGFVPSYPSIATNRMITQTSI TPVIASPVSAQYVAKETRENKYRGSAIK VQSPSWMWPQVQPIYFYQHPGAVLTPSM KHTMSL/QFASMIQFWFQQMSPSVH*G QHEPEYHALQPSSLCKGALLGPQVCTYC RLTAVPC*GRQSGQTGRLAVRGRNLNDPF SIYRFNPNK
1029	9080	A	1979	104	340	TGQSYKCRKFKWLQINRYLTSFLF/VF KEIRHSVA*TLEHSGAIMAHCSLKFLGL SNPPASASQVAGTSGVQYHTSLJ
1030	9081	C	198	2	28	MIDHTIPS*
1031	9082	A	1980	118		528
1032	9083	A	1981	1		864
1033	9084	A	1982	3		4258
1034	9085	A	1983	44	1360	VWDCPGLRWASFYLRLSWRAHRPQCGT ISFVTVNAEEQEKFVFSRTKQKAKEEK LEKCGEDDETIPSEYRKPATDKDKGPKL PEPEEKPKPRSESELJDELSEDFDLSCEKE KPSKPTEKTEESKAAAPAPVSEAVSRSTS MCISQSPPEPATLKGTVPPDAAVEALA DSLGKKEADPEDGKPVMDKVKEKAKEEK DREKLGEKEETIIPPDYRLEEVKDKDGPK LLPKESKEQLPPMSEDFDLALDSEDFTSGP QNASSLKFEDAKLAAISEVVSQTPASTT QAGAPPDTSSDKDLDALDKLSDSLSLEQ RQDPDENKPMEDKVKEKAKAEHRDKL GERDDTIPPEYRHLDDNGQDKPVKPFIT KKSEDSKKPADDQDPIALSGLDSCPS TTEISQNTAKDKCKKAASSSKAPKNGG KAKDSAKITEETSKPKDD

1035	9086	A	1984	159	2467	EKKGSYEKKAASLGSSQSSRTYAGGTAS VTKVSAFSGATSKSYSSMNPETKAPJVS QOMEGPHLPNKKKKHKKQAVKTEPEKK QSTKLSVVHEKKSQEGKPEKITEPKSLP KOASDGTGSNSDAHNKKAVSRSAEQQPS EKSTEPKTKPQDMISAGGESVAGITAISG KPGDKKKERKSLTPAJPVESPDKPSGK ISGMDAGLUDDLIDTLLGGPEETEEENTTY TGPEVSDPMSTYIEELGKREVTIPPKYR ELLAKKEGITGGPADDSSKPIGPDDAIDAL SSDFTCGSPTAAAGKCTKEEESTEVLKAAQ SAGTVRSAAAPPQEKKRKVEKDTMSDQA LEALASLGLTRQAEPELDLRSIKEVDEAK AKEEKLEKGEDDETIPSEYRLKPATDK DGKPLPPEEKKPKRSESELIDELSEDF DRSECKEKPSPKTEKTEESKAAPAVPS EAVSRITSMSIQSAPPAGTLKGTVQDD AVEALADSLGKKEADPEDIKPVMDKVK EKAKEEDREKLGEKEETTIPPDYRLEEVK DKDGKATCPCKSLSKEQLUPPMSEDFLLD ALSEDFFGPQNASSVLFNEDAKLAGAISE WVSVQNPRFSTT/TQAGAPURDTSQSNDK ALGDVALDKLSDLSLQRQDPDPG*GTNQ WEGR*S'REKAKAERHDKLGLRKWRWLFFP PEYRHLLADNGQDQDKPVVEGHLTKKSEN QRNPFGDDQDPIDALSEDLDSCFSTTET SQNTAKDJKCKKAASSNSKAPKNGGKAK DSKAKATEGTSKPKDD
1036	9087	A	1985	2	788	EFSASIVGICHTMPWALLLTLTHSAVS VQAGLTOPPSVSKDLR\QTATLCTGTNS DNVGYQGAAWLOHHHQGHPPKLLFSRN NNRPGSIHKRFYGSNSGTTAILTISQULQ AMDEGNDYVNCNSRDSGGNHLRVFGGGT QVDPSSLRVRQGQMPFWVNFVPGPSSSEAS SPNKAHTGVVFISDFLTPGNP*QAWKA DSQPPFKAGVETPPHPPKQGSNNKYTDSS YLSLT*PGSPHRSLQLARVTH*RGA EKTVAPTRMPH
1037	9088	A	1986	226	401	TSGDHWNIAVAPHENS DLLVQGHDYK YRFGLIVCVL*QAVTPEEPQSIVPRLRT R
1038	9089	C	1987	211	285	MFYPPFNPRYFSVGFIAMNRHTD**
1039	9090	A	1988	107	192	
1040	9091	A	1989	1	285	YIYIYIYIYIYIYIYIYIYIYIYIYIYIYIYI FAPLVLVCGP**AVVTSSELGNRN*SEKTF TWRICMRNIGRCSLQMLQDYFKPFDFRS KVMLVV
1041	9092	A	199	780	888	NKRNQGSSRVGTHL*SQLLRRRLQENH LNPEGRGCS
1042	9093	A	1990	27	437	IAEGNWCVYMPDIWVFPPQAEAEEDCH SDTVRADDDEEENESPAETDLOAQOLQMF RAQWMFELAPGVSSSNLENRPCRAARG SLIQTSAUTKGKQEAKEEKLHSIDIVT NYIFFFWHMEIIFTDITVSRHYNQITGT

1043	9094	A	1991	25	1488	GGSSAAASGVSSRADAPVLAQSPASAGN GRPTPRVPGRSRHPSAPRSGPLPREDGC RTPGPOLLPLPGAUILLRPRTRILSSAAEDK ARSRHDPTQHPSGGRCRGTESPSSAA GRPASMAEABEDCHSDTVRADDEENE SPAETDVQALIPMIQAWKLEPAPRVT SRLENRPCTRAARGSLQKTSADTKGKQEQ AKEEKAREFLKAVEEEEQNGALYEAKF YRAMQLVPDNEFKITFTRSPDGDGVG NSYIEDNDDDSKMAIDLSSYFQQQLTFQE SVLKLCOPELESSQHISVLQMEVLMYTF RWWVSSLDLTLSLNEQLSLVCRGFLTC ARDP*KYARPGPALKVWQKACIKLVS VTRPGRDVF*ERPPV/ERFDGVYISKT YIROGEQSLDGFYRAWHIOVVEYRYRF FPDGHVMMLTPEEPQSIVPRLVTRYEQ GLDAITPTGVTRILSPRHTIRTQSIWLLIT KEKKEKPL
1044	9095	A	1992	242	433	
1045	9096	A	1993	243	549	
1046	9097	A	1994	81	436	AKQGQISPEGVMDVNTALQEVLKLAIIH VWT*TRGNSRS*PKFLDKRQAHLCVLA SNCDPBMVYKLVEALCAEHQINLN*GL IDNNET/MGEWG+GLLLKFDRGGNPKR SWG/CSCC
1047	9098	A	1995	3	452	
1048	9099	A	1996	3	484	PTLLVPTIDSERTHPWLLSPADKTTVK/AP AWGKVGAHAVRSMCAEALERMFLSPT TKTYFFHFUDLSHGISAQV*GPRARKVAD ALVNAVAORGTIDIAQRAVPPLSDLVH KLRVGPGSTFKLLKATGLLG*PWPGPPS PAEFNPWRLQRLPWVDKVSVWSC
1049	9100	A	1997	797	1049	SEECCSCLSPAGSDQRLLCTHLPCVI VNSEWGVARY*LNVCSC*PVFFSVGPK QYPYNNLYLERGGDPSKEPERVYHIEI
1050	9101	A	2	25	619	EFRIRLRENPPWCSPPADTKTNVKAAWGK VGAHAGIEGYGAEALERMFLSPTTKTYFP HFDSLHGISAQVIKGHGKVKVADALTNA VAHVDDMPNVALSALSDLHAKLURVD PVNFQSS*SQLPCLGEPWAAHLPAAEFOP LAVATSSLGKTPGSLVEAPLLTFQUTFK GWKPRVGHAFFALWASPQPLLPFAPVP PWSLK
1051	9102	B	20	103	282	EDTAAQSSPGRGEEAEASAAEAQGGEQ AYLAGLAGQYHLLERYPDSYESMSSEPPA HLLRP*
1052	9103	A	200	224	552	KVLRVARCGGSLLSRPSTLGGQQGRLLM RSGVRDQPGOHSETPSLLMKMQLLAGH G/RAL*SQLGRLRQENHLNPGGRGCS RSRHCI/RSRVT*DISISKKKKKKV L
1053	9104	A	2000	546	882	CHVPPTLGTRGOGTHQDPFPFPHSPGAP APCPPPA/LLGPPRPFPSPPVPGPGGENRK PFTSAP*AVFPRTPLGALSKRG*GSPVVG RGAATPSPPPTPSACGPLKCWWHLIKN
1054	9105	A	2001	43	311	
1055	9106	A	2002	178	817	SPASGHCRNLNGAAVAMFGCLVAGRLVQ TA*QQVAEDKFVFDLDPYESINHVVF MLGNNPVPEGMGGSVVF/SYPDSNMGMP VWKLLG/SVTNGKPSAIFKISGLKSGEGS QHFGA/NEYCPNLHLLRLGIGSELLDS MAQQTPVR*CCWYWPQFDSTQFTQKML DNFYNFCUSSFAVSQAQMTPS/SI'KCSFR PNVVLKWYEAFSVSNIAKFYN

1056	9107A	2003	283	840	TLPAQFTDVISHIHKTGENFLCILCINGRFA VHCTLEEAKYKLCKVRKJWHDHAHTH YLDVFVKVNNTV*TKGTTDFIK*FDTGMLNG RIGVITNRRKKHRGSFDVVHVVKDANGNRF APWLSNIFVTGKCNPKPWISLPRKGIRLTI IAFHSDKWFCSDISVQNLCKRFSQGDTGI KNEARRCSNLQV
1057	9108A	2004	1	966	GRPAPEGGPLSLPNAAMARGPKKKHLK RVAAPKHWMLDKLTGVPFAPRPGTPH LRECLPFIIFLRNRRLKYLATGDBEVKCK CMQRVFIKNDGQVRN*YNLPLLGFMDV SIEKTGENPP*SN*HPRGPPLL*HRTPAE EAKYK/VCAMRKRCIFCGPTKGIP/HLVTS *CPAPHIPAYPRNPLIQGEMNTHSRLLIET GQD/TTDFHSKFDHLLTLCMVTTGGANL GRNWVLLTQQRRTGPSFDRWFT*KDA NGNKLLLATSDFSNIFWLLGKGKPKWASL PFGKGIPPHHILLEERDKRLAAKQSSW KWPFWTWSDLLV
1058	9109A	2005	1	383	RIRKLCNLICVGESGDLRRAIKVLEQLT GQTPTFSKVREYELRKNNFSDTGNFGF GIOEHIDLGIKYDPSIGYGLDFYVVVLGRP GFSIADKKRRTGCIGAKHRISKEEAMRW FQKYDQHILPGK
1059	9110A	2006	3	224	
1060	9111A	2007	176	384	
1061	9112A	2008	2	669	IMAQDQGEKENPHAGNFAFRKLVLNICK VGESGDIRPTRAQAVQLEPAQQGKTPCVF PKA*HTPVKSLWASRRNKEIAFPATSS EGAKARRNLRCRGLKGRSEYGVQDNTT FSGYWETFGFGIQEHIIDLGIKYDPSIGY GPTSYVV/LGVRP/GFQHPQTKKPQGQG CIGAKIRINSKEEAMRW/PFQQKYDGIILP GQNSPFLSKSNSKKFSVNVKNNKKTIL
1062	9113A	2009	688	884	CSCVWNLSFHGNAFHLKTPYSRIKAKH /WMAHVSPTLGGRRGGWIT*SQEFETSL SNIKPCLY
1063	9114A	201	41	320	
1064	9115A	2010	442	780	IEFVIKKIFFPPSHCLICLAIIDLQLQ*YMG VPRMLQLTCVYRGKYRGVVLLEEQNIL WK*HPLQLVREDGRCPCLPLRKLGGKGG GGEPNLNQHGDPVQGNNPYFLFCMRN P
1065	9116A	2011	136	219	DPAREGHPVCCAGQRPCVDGHGQEKG LKAALLEVELGASNPSW*DTEVKPQSA QASALTIWVSYQQGVLSATILYEILLLGKA TLYAVLVSALVLMAMVKRKDF
1066	9117A	2012	3	762	TLRGAVLRGAAGRLLGGGLVLQAGRAM GLSAVGRTRAESGTAERAAPVFVLGLQA VSTDQMFPGPTTRLTVLEDLJKNVFPPEV AVFEPSEAEISHTQATVCLATGP/FPD HVELSWWVNKEVIISGVSTDPQPLKEQ PALNDSRYCLSSRLRVSATFWQNPQRNHE RCQVQFYGLSENDEWTQDRAKPVTQV SAEAWGRADPFGTSVKSYQQGVLSATI LYEILLGKATLYAVLVSALVLMAMVKR KDSRG
1067	9118A	2013	1	1010	RYSSFKAVMIGRLLCVRACFCFLAVGLVD VKVTQSSRYLVRKRTGEKVFLECVQDMD HENMFWYQRQDPGLGLRLIYFSYDVKM KEKGDIPEGYSVSREKKERFSLIESAST NQTSMLYCLASSLFNSGVQETQYFGPQGT RLLVLEDLJKNVFPPEVAVFEPSEAEISHT QKALVCLATGP/FPDHWELSVSWVNKE VIISGVSTDPQPLKEQPALNDSRYCLSSR LRVSATFWQNPQRNHFRCQVQFYGLSGN DEWTQDRAKPVTQIVSAEAWGRADCG TSVSYQQGVLSATILYEILLARGRPTLYC

					LCW\APLVLMLA\WVKEKGFLKAALeve LGAF
1068	9119	A	2014	344	463
1069	9120	A	2015	1075	2102
					QQKPGQPLFLGSISPCKSFKTRKQKSSSK AEYNLTACKCLLCKRKYSSQIMLKRM Q\RPQDNFSWNKL*KRRP**YQQFRN KSS*TSRCCRIFTPHYPFSTE/CN*REQII QMKKRTHRQHRRKIKLNKTLR/CPKSTSP SAAGGQQKTRKPPLSAGFDPKQLYCKL CKROFTSKQNLTKHIELHTDGNNYVVKF YKPKLCTYETRKRKDVRHTVVHKSS RYLGKITAISLERAIJKPIDEFVLNKVAKR GPSRDEAKHSDSKHDGTNSPSKKYEVA DVGIEVKVTKNFSLHRCNCGKAFAKK TYLEHHHKTKHANASNSPEGNKTKGRS TRSKALV
1070	9121	A	2018	1	408
					SNP\VRGGGTHRSGQGAFANMCRGGR M\APFT\KTWRRWHRRVNTTQKRYAIC ALAASALPALVMSKGHRIEV\PEPLVY EDKVEGYKKTEAVVLLKKLAWNDIK KVYASQMRRAKGKGG\RCGR*ERKEGC CWC
1071	9122	A	2019	28	1437
					ERGCFSLPPLACARPL\SVYSEKGESSG KNTVLPAAVFKAP\IPRDP\VELCSNPRLR NNRPOVAYSELAGHQ\OTKAEASWGTGRA GGSKF\EV\VRGGGTHRSGQGAF\GNMCR GGRMP\APTKTLGRRW\N\RVNTTP\QK RYAIC\ALAAASALTSNWWMSK\GHR\EE VPELPLVVEDKVE\YKKTKEAVVLL KKL\KA\WN\DIKK\WYASOR\RLRAISKGK RNRRRIPGAGGPCH\VNEDNGH\KA\AFRNIP GNYSA\*M\AKLNILK\LAPO\GHGG\RCF\N WTEKCFSGKL\DELY\GTWR\*S\RA\SPORS NYHSPLHK\IMNTDLSRILEK\PQR\QRQA PPGHAKKIH\H\RVLLKKNPTE\T\RL\JL KLKPHMOKTHAAGT\THSSPRPRN\H\KLR W\DKGKLLH\QHRLQAKSDEKAA\VA\GKK PAVGKKGK\KAP\VGVKK\Q\KKPLVGK\K AA\AT\KK\PAPEKK\PAE\KKP\IT\EE\KK\PA\A
1072	9123	A	202	80	518
					VGLP\TNSVLP\RGSV\LP\TEVGLDAL\GEG LKGLCGPNP\VVETTNQGFP\QGV\LT\H GRVR\*T\*DQSTQDSASCY\STCPAA\QTA AYCSE\ASSVPRKJ\KKR\LQ\NMLNFWP\RE\* RRLRRSARNKLLRRDADFPL\CL\LLLSLN PVRNKIF
1073	9124	A	2020	1	2196
1074	9125	A	2021	1	207
1075	9126	A	2022	1	1062
1076	9127	A	2023	171	476
1077	9128	A	2024	1	781

1078	9129	B	2025	1	1602	MGYRARIRNHVWLATQNHSTLVIERSA VPPFVNPEYPSATRNQGRQLKGRFNARE FGNLIIIDLSESKRRQOARAEQPHSAAAA DGVTFSVPVTPHTFRHSYAMHMLYAGIP LKVLQSLMGHKSISSSTEVTKVFALDVA ARHQRPTTRKAPAVLQQCRAIATRERPG WFHVAEVRASRSGRSPPTQCADP/GWASI SRGVLVCDCECCSVHRSGLGRHSIVKHLR HSAWPPTLQSDFGPSSRRAAPRAARGP TPRTEEAAWAAMALITFLLVLLTLATLCT RLHNRNPRGESIYWGPTADSQDTVAGSP DHGLLAFAYHRIVRFLLWVLCPGW AFF LVNSSRSGVFNPIILPFCPRHQSARFAGV GRAEDVTFLYHPCAHFWLKLQLALLAY ACMANPSLTPDFSLTQDVDEQLDPRG RTPHLATTLGLHECARVLLAHGETWA RENRSGWTVLQEAVSTQDLELVQLVLR YRDYQRVVVKRLASIPVLLKLRKQRSYL PGRPLARLRSVNSSGAVGMIKSESMGR WFVGP*
1079	9130	A	2026	2	692	ENRSGFQSRRRIYISIKQQKKLITFFWDKD NT'SWNAVASREECYCLGVIT*SRTLSGRS *TKDRLRRT*SMPCYSDSM/SMQELEFR HNTNIQKMRCELIRLQHQTELTNQLEYN KRERERLRRKHVMEVRLQPKGLKSKEL PNKSSSFQGYLQNSQTRQYKALRNHLE TTPKSEHKAVALKRLKEEQTRLKLAIAE YDHISNEMLSTQAVSLLFLGQNKFSAFPL PPE
1080	9131	A	2027	1	2933	MDDIPQEARQYRHQNQAYAISIQDGAE DDERIVRPFTRVINHKKRNKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFDQIRKSD GTLOEHGDICEHVAKYAEIFGLTSAEAS KDRQALKSFAGKEVVFYRPEEDAGDEK GYESFWFUKRAHSPSRGLYSVHNIPYLJ FFIGLQNRFTOFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWIIERYQLP QSYORMPDFRRFLQHIFVLRERPEI
1081	9132	A	2028	6994	7054	LISTSDLYFL*DL*VRCKTGVLWPWFHT TIPRSSLEVNPFRFTYHLCEL/SASYLTSW YLSFLJWIMG*LLHLHHTELL*G*SNKSC *VLCMEPDITVTAHSAVCTQFW/SNVDKN NNVISLRKSFLFF*QSFALVTQAGVQWR DLGSLQAPPGGTPFSCSLSPSSWDYRRP LPRPANFLYF**RQGFETGFFHHVHHVHG QADLELLTSQDPTLASQAGUTGVSHH VQPGEGFCNCCCVVESGPKERVG
1082	9133	A	2029	411	713	TNSLYGLNIVLEIDQHFRNMKIVYRSNSLJ LILLLHLYCIFALSDLCSH*PQVAIKEN WPGAVAHTCNPSTLGNRGRWIV*GQEFE TSLVNMAKARLY
1083	9134	A	203	63	552	
1084	9135	A	2030	3	84	SGSTHASGLLQASRWRRAGTSRCSVSSL TSTSTASLRGLPVTATGLRSGSWTSHHG VAG*GRPTPVGSRRRDGGERVRVGAL CQA
1085	9136	A	2031	3	519	SRWRRAGTSRCSVSSLTSTASLRGLP VATGDPYPPDQASSNLTLSPPGHTCHG NRGOPWPVLGRGGANAAAASSSSRPEOG GGS/SSFARLSSSTHGTGGEGVKA VASSA *GPGQLPGTLNLVGGDVTDA SALSALT GGELEGIEKP*AGRCPITDGNPREEGRE RAG

1086	9137	A	2036	247	1294	MPNTAMKEKRCRCLLMGERSGSKNQAM\RSIFAKLPFARDTRRLGATIDIVEHSHVRFLVGNLVLNLWDCCGQDFTFMENYFTSQR\DNIFPRNVRGSFDFFKVFDFVSEREL\EKDMHYYQSCLEGHPRTLPAKIFC1LVHKMD\LLVQEDQRDLIFKEREEDLRLRSLRPLECAFRTSIWG*GRFYKAWVQAFVYQLDFPNVSAAGRNLNRDFQAINEAD\EVLLFERSYFLVISHYQCKEQRDVHRFEKISNINKQFKLSCSKL\PAFSQSMEVRIINSFAAFMRHLFT*NTYVMVWVMSDPPVDFFLCPLLINHSQCPGNHFEETGRELNGPQATVFPYGVEYCQNALSEKA
1087	9138	A	2038	311	458	
1088	9139	A	2039	1271	1540	
1089	9140	A	204	1	69	SGVKNGRGYVVGISGGTTNKVSP*SRVS*PMAVSACY*VKNRGRYVVGISGGTTNKVSP
1090	9141	A	2040	176	552	MRSSKQMKPFPNPFRCSSITVLSVRGMVLFLTLACPRFKMSSRTDFRFGNPQVT*GSTICSIFLPSILSMRTIK/DQGMFIWQFQGMRFHF*SSETHLVTFLPPGIM*E*FQSLKPEPFSLLSCYCH
1091	9142	A	2041	204	401	WHEFTGAENHCKTLPKEN*WCLCKSHPSEPKNAAYNRTLCDLGSKSEVSLGTSEMWTSGQOE
1092	9143	A	2042	123	311	PSRRLLGHPRWALSPHLLLQPRFCSSWVFAPASCPC/DLFISRDRSSVSVGLMKHRMLGLAELL
1093	9144	A	2043	2459	3030	TSPTSLRPAPIPSPSPSSRPPSSSSQTSAASSPSSAWPKAASRQGA*RCRE*LPSWTSQSSPLPLKSWGLDSAPPPLSTCLSLASSTTRGAGAAATPQCSAPCLHR/CDKVPGFAVAOCINQHSSPSPSLPHSRHPPPAGAPAAAGAPATIALEAPRPPPPQPRVQSQSGVAGKDADECACRPTVMAATGF
1094	9145	A	2044	1125	1695	DFSKIDDSSHQLQVLFENQLLILFFPHFLNDCSNFLFFSEMESSRVSVAOLECTG/AILAHCNLRLLGSSDFFPALASRVAGTTGTCIHTQLIFVFLVETGFHIVQAGATCMQSQSLIKLRENHLNPGGGNCNEPRSRPLRSLSLNRVRLSQREKQNP*DAQVSEKGQLNTLELQAFK*GVSHVFPGERV/SLSIQNP*FWFKKVIKOVSRSLRFKKPQDFRFRASQSLRIFQSHH*KSWNNTYSQQROVILFLCLSSVYYFKSFSKQGPRTLQJOLCPWAWSSTCCRSLREPCTNARVTHLPTLNPRIEDATKQDSFLHGMVPIVRQQQHMR*ENAGEFFPWELGLWMRGCAHGTIRLLSFL*PFLSFF*RSRK*SSLKMLDKNSQNKKTHASTSLKLNLPJHLAPKSMATATKSNSKELRFLQQNRF*FTSSP/CLKISY*YVSSLISI*MTAAIVFCFC/CFSEMECSRVA/QAGVHWCNLQLSLSLPPGFKRFSCLSLSSWDYRHAPPHPAHPCIFSRDRVSPCWPGWSQSPGPFGHPLAWASPKCWDYSSREPPRPQGQYQSFSVTRTSLSPITLRLC1ACPNCQAFTDPSRVLHLFVPASSIPPNLKVTLY
1095	9146	A	2045	1	577	PLKRSNDGCNDGRPTTRPPTRDITVFTSNLKQTRMVHLTPEEKSATVTLWGVNVDEWGKGALGRLLVVYWPWTQRFVFFESFGDLSTPDAVMGNPKVKAHGGKVLRGAFSDGJLAHLADNLKGTFAHTEVSLHC*QACTWDPGEQGSWGNVLVLCVAGPITFGKRISTPPVAGLPNQENWLAWCWLNALGPQVIT
1096	9147	A	2046	16	370	
1097	9148	A	2047	1	1125	

1098	9149	A	2048	1	1941	MWKHLWNWVIGSGWKTLDVLEEDRKT KENVLLLRDFSSGCDQSIDRNMDSEVQA DEFSDRNEEVIGNWSKGQPCYTLAKDLS ALCPYPKALWKVELKSDDLGEIPLELQR LVHGGQVNLDMEDIHQDQEYIKPRLRFK AFSGEQQKLGSLTPBIVSTPSPEEEDKSI LNAVLIJDDSVPTKIQJRLADGSRLQRF NSTHRRRAVNGPSNQLPDKPGSPSPFL APLITVCPAADDPSPALWLHLVAARSTS QRNGQVLCYLPRKGAVAVCTSEACC WVFVLLERQNDSGMOLGGPPPSAIFRW LAAPAADAPAATSGAGCLATAGGAKTR KLAALELYEDEVKCKSSKSNRKPATVFK SPRTPQRTVKNWFOQIAPNAGEDAEQO ELAFIAGGTAKWYSHFGRFGNLLQRA WNVSRKLLRTTQISGSLSRYWGFPGFQAK VAATLAKQEVIIPPYLSLGRGAEFKGLSQ NSLQAPLHGTSQGKKNDYFETAVLPLKP REKVSREKRLLASSRCCLSGLTKCMSEEA FLVITINSSSCSEGGFPYLIAGKYAQDFG LVEEACFPYTGDSPCMKMEDCFRYYSS EYIHYVGFFYGGCNEALMKELELVHHP MAVAFEVYDDFLHYKKGIYHHTGLRD PFHPEFL
1099	9150	A	2049	1	2077	MTYPENIQIKKITGVQWMVPLKYKEEGS KVTYCNETMTGVWHDVLGRNWACFT GKVKVTASENVYVYVIAJLKNNSOEKYSN RLKYDHNFKAINAIIQKSWTATTYME YETLTLDGMIRRSGJHSRKIPSSVPLCSS APLDVQLLVSPVAKILGLYGGRMGGMA GQKAPFLRAPVIGVSFADSFQPSRLQDSP QLFNQGQLSAAQVGSSGSQRDVNCNSV MGIPOEKVVYVYQLKLDTAYDDLGUNSG HFTIIYQFEEVVLNDLQVGLPFFKYKEG GAARVITYCNETMTGWGA*CVWGRN WACFTGKVKVITASEENVYVNTAHLKIN SQEKYVSNRLYKYDHNFKVCAINAIQKSL TATTYMEYETLTLDGMIRRKWWTATRS KIPRPKPAPLTAEYSQKII/LHLPTSDW RNVHGHNNSPVRNQASCSCSYFAS MGMLE/ARGIRLTLNQSTQPLSPQEVFVSC NSQVYAOGCEGGFPYLIAGKYAQDFGLV EEACFPYTGDSPCMKMEDCFRYYSSIEY HYVGGFYGGCNEALM(KLELVLHPWP WEVCFLLEVYDDFLHYKKGDPTHTGLK RPFSTPFELTNHAVLLVGVYGT*LKPLG MEWVWVKNKLGAPOAWGRNNGYFPRPR GTDECAJESIAVAATPOFLNFRGRLPLSII NGSASSCKGGIGIFTDCRLSTSJFRLSLQID FP
1100	9151	A	205	379	540	IKKVRNLGPKHPRFSVLLLHVSCSTNGG VLL*RSSVPKIKKRLQNLNFWPRE
1101	9152	B	2050	59	466	MSAAMRERFDRFLHEKNCMCTDLLAKLE AKTGVNRSFIALGVIGLVALYLVWPLSL HLCGFLLWCMAPSPSNGAELLYKRIIRPP FLKHESQMDSVVKDLKDKAKEFADAIT KEAKKATVNLLX*
1102	9153	A	2051	1	915	
1103	9154	A	2052	1	3180	FRAAVAAPVYPALGTAPGGETVPE/MTA AMRERERFIRLHDKNCMCTDLLAKLEAKT GVNRSFIALGVIGLVALYLVFVGYGVASLL CNLJGFYGPAYISIKAIESPNEKEDDTQWL TYWVWVYVGFSH*NSFSDFNLSWAPP* LHG*KCGFLVGWCMAPEPLLNNGG*NCS KRIIRSFSPGSTKSQIGVLVKD*RPR PKETADANH*KKPKKSLP*ILLG*KKKK GGR
1104	9155	B	2053	171	256	XVDPASSQAMELSDVTLIEGVGVNEVM VAX*

1105	9156	A	2054	187	437	PWS*LSLPT*QTAVQPAQGRYCVSRHHI RPPPGACGGGGTANGNPEPTELPHPSEG NDEKAEEAGEGRGDSTWGGWSWGC
1106	9157	A	2055	2	165	NQHHHITLPPSPHYPHQ*G*HQRAPWP GCWQGPRCRNKGQHQAAEPEGLQPLG
1107	9158	A	2056	1	506	SPASQHCHHYPLMMGSSVVRGAFLGLPP VGPHAPGVGRMCRLLTQ*RPGAGCYRC LLRR*RAKLGPRLSESAPPHLPPSPHYPH PQ*G*HQRAPWPQGWQGPRVTAR*GGV PHPSEAKVPLLDGPIPSALDWGPWAHP NRRAAWPQPP**DQLSRPVRSRVG*GGH KP
1108	9159	A	2057	496	1092	QAPAGQLLCHLATHPIUPPGACGPPGAG QKKEPETELPHPSEGNDDEKAEEAEGRG DSTGEAGAGGVEP/RP*ASP*HPRPAQK TSRCRQQQSRSRGPPTE*G*HLLPSQWPWH CAAQIP*YRGAGCG*ARGYRGCPPEQI LPWTRKPDETDLPGPATRSPSPHTAFSEH YRQLCDSLPLTPRVCSCSRPLSLLGPLGH
1109	9160	A	2058	155	701	PGLFRRLPHPTGTVQSPFNFP*/PPR/GP EAPP/RSPPAPRSLRGVVDGL*PP*PTLLT GRDNWSY/PEAGARQPPGSGPMDPSPA PRE*DHPKAEPSPQKKGAGPLLTVRSRY GQGRSQAEGQSKDP*GRTPGVLV/GPSPR EFPVSVPIVVF/FLCRFFSCKSWIMTLTFL PSGVSCGCDK
1110	9161	A	2059	1	506	DRDAEFYKFLQENDSQLNFSDSSE EEESFHSPLPVLEEA/AFAAAVAT/RRGD QESAEANKFQVTDASAVFNAVVFNALV TFCIRDLTGCLOKLIGKVAKDSSRMQLQ PSSLLWGKLRVDIKAYLGSVJQLVSCV AETVLAALVWHISVLVPCFLTFPKQCS RE
1111	9162	A	206	287	449	IKKVRNLGPKHPFVSLLHHVSCSTNGG VLL*RSPPRKKKRLQNMLNFWPRE
1112	9163	A	2060	9	2295	VGCTLRVGVGMAAAGSRKRLAELTVDE FLASGFDSESESESNSPQAETREAREA RSPDKPGSPSASRKKGRASEHHDQLSR LKDRLDPEFYKFQLENDOSLNNFSDSSE EEGPFHSLPLPVLEEAEEEDGAEEGEDG DRVPRGLGKKNVSPVTVAMVERWKQ AAKQLRTPLKFHEVVQAFQAAVATRG DQESAEANKFQVTDASAFNALVTFCIRD LICGLKLLFGKVAKDSSRMQLPSSPL WGKLRLVDIKAYLGSVJQLMCLSETTVL AAVLRHISVLP*FLTFPKQCHMLLKR VVVWSTGEESLRVLAFLVLVSRVCRHKK DTFLGPVVLKQMYITYVNRCKFTSPGALP FISFMOWTLETELLALEPGVAYQHAFLYI RQLAIHLRNAMITRKKETYQSVDWQY VHCLFLWCRVLSTAGPSEALQPLVYPLA QVIIGCILKLIPTARFYPLRMHCIRALTL GSSGAFIPVLPFILEMFMQVDFNRKPG MSSKPINFSVILKLSNVNLQEKAYRGG GWWSCYDLNPGSYLHSQAHCICGPELVL PVVLQLKSFLRECKVANYCRQVQQLG KVQENSAYICSRQRQV SFGVSEQQAVEA WEKLTREEGTPITLYYSHWRKLDRDREIQ LEISGKERLEDLNPFKIKRKKMADRKDE DRKQFKDLDLNLSSWEEDDTEGFSERGIL RPLSTRHGVEDDEEDEEQQEDSSNSED GDPDAEAGLAPGELQQLAQQPDELELD QLESDD

1113	9164	A	2061	203	1383	MSSPGYRTLTVALLFTLJCCPGSDEKVF EVHVRPKAEGRSLPKGSLEVNCSTC NQPGVGLGDL*P*GFCWDEOVLQGN NYGLKHPIDTVLQCHFTLJSGQEWSM NSNVSVYOPPRQVILTLQPTLIVAVGKKS FTIECRVPTVVEPLDSLTLFLFGRGNEILA LWRITPRGRAAPAPQGGQPHNSNTA DRRGLAHRKLSPSLAVLUDLMSRGNNIFHK HSAPKMLEVYETCVRTPSDWSSLVTGG VGVACPLFTSVLLCFCIFGQHILRPA SGMCTYGVRAAWRRLPQAFRPIATHGVA WPHTTVVTGQCDSGGRLYQPWLKCD RQQRLGTLPLARLQTPGLSPVPTVSP TMAREGSHHGGLSLDASLPTLSFTGW EA
1114	9165	A	2062	503	1808	TTVQEESTDSQPVPNIDHLLTN(GRTGV SPGDVSDSATSSTDTSKGSWGSGKDQYS RELLVSSFAAASKRKPKKEKAQPSSE DELDNVFFKKENVEQCHNDTKEESKES ETLGRKQKIIAKENSTRKDPSPTKDEKIS LGKESTPSEEPSPHHNSKHNKSPTLSCRF AIIKESPRSLLAQKSSHILEETGDSGTTL STSSQASLARFSMKKSTSPETKHSEFLAN VSTTSDYSTTSSATYLA*PGLQSTE*P*GA SVAESKGDEADDERSLISEGRPVETDS ESEFPVFTSLDFREAPRKRTARSITKSSR RNSEGSELSCTEGSLTSSLDSSRQLFSSH KLIEDDTLSRKKSARFKSDSGSLGDARK EKEAPSLTKVFVDVMKKGKSTGSSLTPT GESEKQEPWTWKTIAKDRLKLRRPRA ADD MYE
1115	9166	A	2063	2	527	PDEADSIRAEAMSRSVALAVLALLSLSGLE AQRTPKIQVYSRHPAENGKSNFLNCVY SGFHPSDIEVCLLNGKURIEKVEHSDLS FSKDWFSVYLJYTFHPOLKDKEYALP V*THVTWLSAQR*FWKWDGRHVKOHHGG LKMPLHGWNDSKFLACFFNIDMLITL LLCTKM
1116	9167	A	2064	3	163	
1117	9168	A	2065	611	1432	TPHLHavitNQPEIAEALLGAGCDPELRD FRGNTPLHLACEQGCLASVGVLTQSCIT PHLSILKATNVM/GVYVCLPALPHPLGGQ VTWRRGRWANLRSPGKSLSNS*HLEG*E NMCAKCLLDIAFKFQNPDCGFLKFR* DYLFLHKRIGERSEG*NRWVYVFFPVFLPG HTCLHLASHIGYLGIVELLVSLGADVN/A QGWCFLPPTH*VRLVLM*AEIPNAAIS ISNSFWFOEPNCNGRTALYLAVIDLPNPDL VSLLLKCGADVNRTVYQGYSP
1118	9169	A	2066	1	1332	MVQLSPHYRGDSEDGRKRMVRQRTKPV LFFWSDWLGNNSPSTTPORRNQPAFJGRR GGAEEPTAVRAAVPPASAPARKQRAAR GPAHPQQRQPLVRAMP/QAAERPQEW MEGPRDGLKKERLLDDRHDSDGDSMDK EYEQMVKELQEIIRLEPQEVRGSEPVWK QQLTEDGDSFLHLIAJHEEKALTMEVIRQ VKGUDLAFLANFKTNLQQTPLHLAVITNQ PEVVEALLGAGC/DELRDFRGNTP/L*SL ACEQGCLASVGVLDSLAPPQLHISLK GYPTIMGHTCLHLAFLYPMGQWGHRSF LVLFGVLVDKCSRSPCKWPGLPIHLAVAD LQNPEPGCSLLFESVGADVQQSLPTQGY SPTQPHGPQQAPRQQQLGQQLTLENL QMPLRE/SPDEESYDTRVQSSGTGVSPED LAPMDIDCGVFGGPRSDVMSAKGLKET
1119	9170	B	2067	169	251	XPKQEPYVIPFTGCVTQKGQVAGDAGW Q*
1120	9171	A	2068	33	445	
1121	9172	A	2069	1	1428	

1122	9173	A	207	263	525	UKKVRNLQPKHPRFSVLLLHVSCTNGG VLL'RSSVPKKNEEAAYAKLLAKRM KEAKEKRQEQAIAKRRRLSSLRASTFKSES SQK
1123	9174	A	2070	1268	2807	LPLESLAVQVKQHIDAVARFTGIGKNCYF GFGGMSTQKPARGC*TRRP/EIVVATPGR LWEILKEKYHHLGQNLRQLRCLVWVDEA DRMVVEKGPFWLELLHSCFRDASNDNSIQ YNPKRTKRLFLATLTIVVHQAARNPFFH KVKHTKKMDYTAQJLQDLMQKIGHEGAS PKVIDLTR*GPRWETL*TETKIP*DLIEK DFLLVTTFLMQYSRAAA*CFANSISICRK LSSGLKVK/LLDIMALGPWHGLVWVHQEG RGLRNLSGSILPRLUEDCVLLAATDVGSQV WDIPKVVQHVHPFTRVPRTESEYVHRSW SNLLRSYQLTGKLS*LLIWGLKDVINFKFK IYKTLJKKDEDIPLPFRADINTWDVVKERI RULARQEESEYRNFQ/ACLHNSWIEQA AAAL:IEJELAEDMY*GEGKAIDQQEERR RQKQMKVLRKELRHLLSOPLFTESQTK YPTOSGKPPPLVLAPEKSERVFLSCLSQ GRKEEGRTKEARGGPQPGTATAKLVQ FNCPGQVQC
1124	9175	A	2074	1	408	SNPVRGGGTHRSQOGAFANCMRGGR MFAPI/TKTWRWHRRVNTTQKRYAICS ALAASALPAVMSKGHRIEEVPELPLVV EDKVEGYKKTKEAVLLKLKLAWNIDK KVYASQRMRAKGKGG/RCGR*ERKEGC CWC
1125	9176	A	2075	3	1434	FPVAAAGLRGAWSPLSAMACARPLIS VSEKGESSGKNTLPAVFKAPRDPD NFVHTNLRKNNRQPYAVSELAGHQTK AESWGTGRAGGSKFFPEVRRGGTHRSQ QGAFGINMCVRGGRMFIAPTONLQRRWN RRVDTVQNRVAYCISVALA\ASALTSNW VMSKIGHRIEEVPELPLVVEDKVEGLQE EPRKLFLLLKKLJKAWNDIKKVYASRR MRGGQRQNGETVRRIPGAGGFCIYNED NGNPKPFRNIPGNSYA*M*AKLNILEAII PGVHGQFTLAFGT*KLFPFRKLDELYGT WR*SRASPQRNSYHISFPLHKMINTDLS RNLEKPORSQRAPPGRHRGKREDPIRRVL KKNPLKLNRLIMLKLNPICKGPCCR/RHPF FAQQAQESQSSGVDKGKLLHORHLQAKS DEKA\AVAGKQPVGKUTGKKGCLLVF NQKKPLVGKKVAATKPKAPEVRSLQR NATTEEKPA
1126	9177	A	2076	275	652	TVNLCFSTFLWTVLVFTFFFAKCQIHL RIVLYR*LKTTNSWFMLYAIMHVLLVQG QN*NKIFSVKQIYLLCTFYTGIFW*YHT KG*NKTFTM*NSMYIIFGVLHLTLPKGK KRKHILFATTIC
1127	9178	A	2077	63	290	GGHLLSISRPYKTKPTHGIGKYKHLIKAEE PKKKKGKVAVRAINLGTDNYGVLNH LTAYDMTLAESYAQYVHN
1128	9179	A	2078	315	1092	RPRSSKRMGSGTSEKVLCLRRNNTIFKQAFS LJLPRFTSGEKPIVSVGILLISISRPYKSK*P THIGIGKYKHLIKAEEPKKKKGKVVR NLGTDYEYGVLNHHLTAYDMTLAESY PLFSTIFCNLSH*KSEESYAMPTQNHKK WLPJPCRDQGQPKCLLGLKCLPHTHRV VQISLSLASFARKFSWIKIPKPVLP*RESG LFS*REHTERKTSRGFRFQRFDPPELGRFW AKEFEVATVDPFHCCQWSYLSAKEKSSL GS
1129	9180	A	208	68	280	
1130	9181	A	2080	61	346	LSLFFETEFCSCYCPGLECGSVILAHCNFR LPGFK*FSCLSLPSSWWYRYPDPANFL VLVETGFHHVPGGLVLDPLFNLDTCY

					SAKRQFLE
1131	9182	A	2081	88	386 PHRGKRRNKTHTLCRRCGS\KAYHLQ KSTCGKCGYPVAKRKRYNWSAKAKRP KYHPEPGRMHRLKIVYRRJQGMGFREG TIP*TOEGQAVASIOVHL
1132	9183	A	2082	187	913 STNKRSTRPPLGFEMASPHQEPKPGDLIE IFRLGY\EHWALY1GDGYVJHLAPPSEYP GAGGSSGVFSVLSNSAEVKRGURLE\EDVV GGCCYRGQGTAWDHGVPSPRALEG*SF SSAKEMVWFRRLKYSIVS\SRNCEALCSP SLRYGVPAVKQVGKGP\RFEVG\VLATA LGILVVAGCSFAIRRYQKKSDSLQ\QPN PVLEA\VGVPVEMSLPRCLQ\QPDPRALS QAFSRSFPLFPLSLAGKSMI
1133	9184	A	2083	1	423
1134	9185	A	2084	2	390 PRVRYRGVITDPOPLMEQPG\GDSRYWL SSRLRVSATFWONPRNHFRQVQFYGLS ENDEWTHDRAKPTQIVSAEAWSKADC GFTSGN*QGGVLSATILY\I\LLGKATLYA VLV\SLVLMGMV\KRKDF
1135	9186	A	2085	2	1027 HLPDAAMGPQLLG\YVVLCLLGAGPLEA QVTONPRYLTIVTDKGDVPEGYKVSRSKE KRNPLILESPSPNQTSLYFCARSFEQGY EQYFGP\GTRLT\TVTEKRNFLILESPSPNQ TSLYFCASSSSQGR\SLSPG\FN\GYTFGSGT RLTV\EDLNKL\LPPEVAV\FEPESEAEISHT QKATLVC\LATG\IPD\HIVELSWWVNGKE AHSVG\STD\QOPLKEQ\ALND\SRY\CLSSR LRVSATFWQNP\RNHFRQVQFY\GLSEN DEWTQDRAKPTQIVSAEAWGRADCF TSWKS\YQGVLSATILY\I\LLGKAT\RLTLY CLCW*APLVLMA\MMVKEK\GFLKA\ALEEV ELGAY
1136	9187	A	2086	1921	1991 SFVFDANIFQQFIG*SLLSLWM*ALLCLL VTEHLYLVSIGHLWCV\CV\CV\CV\CV\CV DFLIPSHFSIDCFAKAIYILRILII\FFVIFDAN IFFQFIGCLLICFR
1137	9188	C	2087	105	392
1138	9189	A	2088	38	230 LYWOKRK\GKLLNNL\TQGIVADPVR*KK FHKCP\SNCP\KIHNTESAYAV\SF\KM\YSA HVLGSLYEM
1139	9190	A	2089	487	747
1140	9191	A	209	465	1444 KKEKDYSW\TDL\LT\TV\PS\PG\PKELARI GQTFPSILK\KMMMSA\SL\*ESPLNKGG*\E T*GKAPKIQLR\TPTC\SSSSP\NG\RIAL\K KQ\T\TR\KIK\KRL\Q\MLN\W\PRE\*R\RLR RSAR\N\K\LLR\DA\DP\PL\CELL\LL\W\PC\PPA\T E
1141	9192	A	2090	1	1350
1142	9193	C	2091	179	649 MFLLVGAPKANTTQPGI\VEGGQVLKCD WS\STRRCQPIEFD\ATEL\HRELKENQNHIS YSLKSS\ASFNVIEFPYK\NLPIED\ITNSTLV TT\NTWTWQ\OPAPMPV\PFV\W\I\LA\VL\AGL LL\LA\LV\LFV\MYRMGFFKVR\PPQEEQE REFOLQPHENGE\GNS\SET*
1143	9194	A	2092	274	423
1144	9195	A	2093	1	3849 MCGGVFATEELAVSAGLKRKMC\SVIE RHDFQV\ELL\LDKL\KQ\K\GAI\RR\FL\Y RSP\SHSKNM\TISRG\LM\OCEEL\AY\LRD ESEFR\DKL\T\PT\T\MEYR\LDY\RTA\AD\TT\G LO\PL\NO\FT\PA\N\SR\QSG\FL\LT\CS\DO\K\J YIG\DDN\PL\T\IV\KA\N\Q\G\G\EA\EL\IVS IPL\QAD\FIG\G\VR\NN\EA\LA\RL\SC\AF\KTEN QT\RV\VV\CD\G\N\PM\K\G\T\Q\H\LL\SP\T\Q\G N\SM\Q\FL\H\Y\T\A\SS\SV\AL\DS\H\RS\K\Py\CV

1145	9196A	2094	1126	2034	RCWRPRTLGFASPPTRPCSPTHAOGCIMGTPRDWHLFLSFASPLRIEIPQGYDKTFGLKNKKGAKQQKFIAVTHVKFGO/SKSTSOSTE*SWKRKLKKDDKKKELQELNELFKPVVAQQKURVKGADPKSVVCAFFKQGQCTKGDKCKFSHDLTLGEKMEKRSVYIDARDEELKETKSSLQADTMNDWDEKLKEEVVNKKHGEAEKKKPKTQVCKHFLAEIENNKGWFWVCPGGDDICMYRHALPPGIVLKKDKKEEKEDEISLEDLIERERSALGPNVTKITLESFLAWKKRKRQV
1146	9197A	2095	1	213	
1147	9198A	2096	2	170	
1148	9199A	2097	3	764	PAVVCGRRLISVLEOIRHFVMMPEINTNHLDKQQVOLLAEMCILIDENDNKIGAETKKNCHLNEIEKGHLHARAFSVFLFNTENKLLQQRSDAKVTFFG/LVLRNTECSIPLRQSSRALRESDALGS*/GARQHGRGLESLSLGIPLEEVPPPEEV*HRIHYKAQSDFGIWGHEIDYILWWRKNTVTLNPDPNEIKSYCVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNLHNQFVDHEKIYRM
1149	9200A	2098	1	299	GIPDQEIVGTGYGILDQKASGVKYTKS/DFRSPPRDDLSSFQL*VTSHWDLRLIEVETETICKRLLIIACTRRGPAIDLPRACQRPLHYTTWYTKGSRW
1150	9201A	2099	1	631	MDSMPPEPASCRCLLPLLLLLLPLPAPELGPSSQAGAEENDWVRLPSKCEVKYVAVELKSAFEEGTGKTEVIGTGYGILDQKASGVKYTKS/DFRSPPRDDLSSFQL*VTSHWDLRLIEVETETICKRLLIIACTRRGPAIDLPRACQRPLHYTTWYTKGSRW
1151	9202A	21	918	1872	AEKGPPSPGVPTCLANSUPPSAGSAAVPHSAPPGAAPRRSSRQRQPCSPRRCWQEGAGVRAGQDGLGSATRSAAQQSHTQRTGP/EGSTGAKAARGSTGRKR*AMGGSSAAIDGA/PHVLTGQPRAPPSTGDGARAGNWLAQGSAPTHRWRSTCWEPASPGGLPASNNCCTHTWTRNCPTGATPSGTALPGLPGRPAPHPPEPPPPMPPPP/PPRPL/PLSCVF <sup>L</sup> VERPIWREVLVSPVAPPRACVDTSGHEASGSPSWVAGTEPSRPWLQKPLPCPPQOPRSWLTRRPE/AELHMPPTPLPAYLPGSGVPOSHS*PPATLRL
1152	9203A	210	87	904	GGVVAPEITPSDPWFPVQRQGVGIDASVPGIGKNVCEKAATSVDAFARMVTAASRYYPQLMSLGVNLVRFLPAFVVRMVKQLISEHVVGAVMICDARIYSGSLSSPSYGWFCDELMGGGGLHTMGTYIILDLTHLUTGRRAEKVHGLLTKFVRQNAIRGIRHVTSDDFCFQFMLMGGGVGSTVTLNPNM/GAFVIIEVMDVDPILYLKGMVYMVQALRQSFOGQGDRTWDRTPVMSMASFEDGLYMQSVVDAIKRSRSGEWEAVEVLTTEEPDTNQL
1153	9204A	2100	171	825	RANPTKPIGCAVRGPWSALKAGCCQQRAGGRFLAVVVVVARRHVCSPSGEKGLLLARPREEPPGPLGSGPGRAMDSMPEASRCCLLPLLLLILLLPAPELGPSSQAGAEENDWVRLPSKCEVKYVAELKSAFETIGKTEVIGTGYGILDQKASGVKYTKSDLRLLIEVETETICKRLLIIACTRRGPAIDLPRACQRPLHYTTWYTKGSRW

1154	9205	A	2101	2	527	PGRAMDSMPEPASRCLLPLLVMVLV LPAPELGPSSQAGTDENDWVRLPSKCEVC KYVAVELKSAAFEETGKTKEVIGTGYGIL DQKASGVKTYTKSISDPPDQDLSFSQI* VTSHWDLRLIEVTETICKRLLWIACTRSG PAAILAKVGFIVLHPLWGPGLQCNLS VSAGL
1155	9206	A	2102	3	1203	SSAAEAMRVLVRCWCGPPLAHGARRGR PSPOWRALARLGWECDRDSRVRKEPPW RVLFFGTDQFAREALRALHAARENKEE LIDKLEVVTMPSPKGLPVKQYAVQSQ LPVVEWPDVGSGEVDVGVVAFGRLLN EALILKFPYGLNVHPSCLPRWRGPAPVI HTVLHGDVTGVTMQRPKRFDVGPIL KQETVPVPPKSTAKGIGKAVLKDWGA NMLNSVLKEKFGLESLNSNRQQPMEGAT YAPKISAGTSCIKWEEQTPREQKFRLYRAI GNIIPLQTLMANTIKLLDVLVEVNSSLVA DPKN*REQALIPGSVVIYHQSQILVYCK DGWIGVRSVMLKKSLSLATTDYNGLYHP WYQKNSQAOPSCRFQTLRLPTKKKQK KNCCYATMH
1156	9207	A	2103	3	215	
1157	9208	A	2104	2	341	SKPFLSLQETYEAKRNEFLGELQKKEEM RQMFQVRKEKEAELKEAEKELHEKFD RFKKLHQDEKKKLEDKKKSLDDEVNPF KQRKTAELLQSQGSQAGGSQTLKRDK EKKN
1158	9209	A	2105	1	130	
1159	9210	A	2106	2	3449	
1160	9211	A	2107	2	1609	FVPPPFVEAYWGCRKNWNWAGHRGK RRVKSAPSPYPTFKGWAVERGLGLEQR GGPSLAPPPTGLGRARSVTLSLCRRSSV SCAVAPVAAAPVAALADAGAMAATDIS RQVGEGRCTVPLAGHVGFDLSPDQLVN KSVSQGFCFNILCVGETGLGKSVTLMDT LFQHQISKGEPATHTQPGVQLQSNTYDL QESNVRKLITIVSTVGFQDQINKEDSYKP IVFIDAQFEALLQEDPKVRRVLQTYH DSRIVHCVLYFIAPTHGLKLSLDTVMKK LDSKVNIPIHAKADAIKSLETKFKIKITS ELVSNVGQIYQFPITDDESVAEQLNP*TP HLPFAVIGSTEELKIGNKMMRQYWP GTVQVENEAHCDFVKLREMLIRVNMED LREOTHTHRHYELVRRCLEEMGFKDTP DSKPFSLQETYEAKRNEFLGELQKKEE MRQMFVQKEKEAELKEAEKELHEKFD DRLKLLHQDEKKKLEDKKKSLDDEVNA FKQRKTAELLQSQGSQAGGSQTLKRDK KEKKN
1161	9212	A	2108	1	618	
1162	9213	A	2109	1	427	HIVRFFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSAVADLKDNRSLKRY YRQICITLELGSYIKDLSVVHSDLSSIVIL DNSPGAYRSHPDNAIPKSWSDPDTIAL LNLLPMLDRLFTADVRSVLSRNLHQHR L
1163	9214	A	211	217	624	GDELVKREAGMKMLPGVGVFGTG/ELPP EVLVPLLRAEGFTVEALWGKT*GGRK ALLKEMMNIAPHTSRTYDILLHQDVLC ISIPPLTRQISVKAIGIGKNNVCEKAATS VDAFRMVTASRYYQLMSLVGNV

1164	9215	A	2110	2	835	WNSAELGRGCGPGAGGAGVGIVGMMRTQC LLGLRFTVFAAKLWSFFIYLLRRQJRT VIQYQTFRYDILPLSPVSRNRLAQVKRKI LVLDDLETLJHSHIDGVLRPTVRPGTPPPD FILKVVIDKHPVRFVHCRPHVDFFLLEV VSQWYELVVFATASMEIYGSAVGRLNW DNSRSIL*GGRYVYRQHCTLELGSY1KDP LLWFHRDLSGIVILDNSPAGYRSHPGY GGRUDNAIPKSWVSVPSTSJFALLNLLP MLDLRFTADVRSVLSRNLIHOHRLWL
1165	9216	A	2112	2	846	RPLFLGCPAQAEPQGPVGQPMGAPAGNG HGS*SPHFHQGTGKRAALATWFNQPAP ERSPDVKAPAKPRARRIAPRPRVGVPPIR IVRCPTVRYHTKVRPRGRGFSELRLVA GHHKVKARTIGISVDPRRRNKSTESLQA KRAAG*REYRSKLJLFFPORSRAPKKGDS SAEELKLAHPG*PGPGHAPSGTVYKKE KARVITEEEKNFKAFASLARMARANAPA LSAYRAKKSPRKPKQKTDVEKPTIKPCLG TWNQSGSHAGSPRGVFRGNNNAWDGA SLL
1166	9217	C	2113	714	1010	MKSLNPHLDKIJPPHKPLSSLASPKTLLVP GHLCDSFTPKFSNPYLLFPQNHPHTSPH LPSPPKDKGKISPIYTPHCLGGVTLILCMH FYRFVCHLSY*
1167	9218	A	2114	2	227	ERFRPPIARVIDVNSNGKVHVAE/SCLEET GGLGVDIVLDAGLDPPDSSHCLFLKGATL AFLNDEVWNLSNVQQQGRYL
1168	9219	A	2115	3	487	
1169	9220	A	2116	1	489	
1170	9221	A	2117	2	221	
1171	9222	A	2118	353	512	
1172	9223	A	2119	1	1706	MPRAAIAQTPAPTPAPAAAARGPGRRLA ALSSPHLRAEHDGRCSSETCHGVLDS LASPTPPRSDERPDOWEQAGAGSLTKD KVAVVVKVQAVGAQARQVSPGKRVLCL GKRAFKRKVERCPTCPCSPGEDGGSRRT LTWDLFGPRPSLAEAAEGHFFLPHFFAV FGQLVWIRCMWLLSOSGPHLYAKRRN HLERDVTMKGLYFQQSSTDEEITFVFOE KEDLPVTEDNFVKLOVKACALSQINTKL LAEMKMKKDLFPVGREIAIGVLDVGSK VSFPDOPDDEEVGILPLDS*KTPGLCESL LRVHEPLLGFINPEKVWTTEAAGSISGM GVRAYYSFLHLSFFIPSPGGNQCLIMDGA KCHLRTIAQLAHHRGAKVISTACSLEDK QCLEARFRPPIARVIDVNSNGKVHVAESCLE ETGGILGVDDVLDAGVRLYSKDDPAVKL QLLPHKHDIITLLGVGGGHWTTEENLQL DPPDSHCLFLKGATLAFLNDEEVNLNSN VQQGKYLS*QSFLRLKDVMEKLSTGV FRPQLDEPIPLYEAKVSMEAIVQKNQGR KPKPSWFO
1173	9224	A	212	858	992	LKSPORPGMVAHACNHISTLGARGGWII/ R*GQEFKTSLANMAKFH
1174	9225	A	2120	230	535	

1175	9226	A	2121	344	263	GDRGTTGRAHTEEGAGAGMHHFYDVEG VDWDR VQGPRMRGGLSSVQVRGPAPK VSGPLSICVVRQLGLASSRFARSVPFGV WKKDLPCLSLLSQSEDELTPFDMSIQVR LPNFIRO*KOYWLGMVAAHAGTEKDK NSVNFKNIYVQLELDNPQG*YFKISFSLJ YENISTLKEDEMGHGDYSLSEVLWVCA NLFSDVQFKMSHKRIMLFNEDNPTHON DSAKASRARTKAGDLRDTGGHISPF*IG T*LLFFYFLFF*ISIAEDEDLVRHVFEESS LEDLLRKVRAKETTRKRALSRCALSPQJL PTPLNQKQAGRGFKPPPIKLYRETNEP VKTKTTRFTNTSTGILLPSDTKRSQVGR DAFCCCCF*DRVSLCRPGWRGLMLMGF KPLVLLKKHHYLRFSLFVVPFESLVIASS VDHG*VTLTHSAVYGAALCRYTPRNRIP PYFVALVPQEELDDQKQJVTPTGMWVQ RYFGF*TLPLWNHNWTPQGGGTVRLA LDVSKKLETGTNCRQVKGLCWGNTGRN SKYRRAATTVLLSAVSVTHSATPEQ/VW GKMKIAIVEKPRFTYRSDSFENPVLQHQH FRNLRALADLMEPEQAVDLTLAQC*S Q*IKRLGLSLVDESGASLQPQDYNP*EGK SYPKRKNTNK*KGLGKKKRPKGWKF*FK KEGA*RPHIKKGVRWKGKWHCAPC*KEA CRGLRG*KSGLKKQELLEALTKHPGGL DQRPARPAALPAVLPGCPGLVLSQLKCV SPELGRVYPT
1176	9227	A	2122	599	1063	SCSEGLNAVNNLKSARPKPKCLSLKWLFL FYFF**IDSQAFYPLJSKIVKRKKMTHFW TLYFMYLFLRQSLALLRPGWSAVAQSQL TVALGIL/VLRQSSYVSPPGTWNHRYMP PCPAF*NYFCRDGGPLPILFRLVLSNWV*A VLSPLRPLKMLRLQJA
1177	9228	A	2124	142	461	
1178	9229	A	2125	145	904	VINLVLYLISSPRPELKVVDKESEVVMKFP DGFKEFSP*ILQLDEVDFYDPKHVISR LSVSADLESRICVVGENGAGKSTMKLL LGLD\APVRGIRHAFHNLKIGYFSQHIV GAAGT*TFSACGNLLTQVFLGRPEEYV RHOQLGFGMOISGELGHASSPAOLQGQK EAEVAFCSIDGILLCPNPLVLDDEPTNHLG HGRAIEALGPCLOTISVG/VGVLVSH*SA LSRLVCRELVWVC*GRRRHPCGKEQF
1179	9230	A	2126	39	2220	SGPGVPEWNMAMTCAEILRSSEPFIDQG VFDVVTGVLHSGSADFESVDDLEVAEG ELIQEVSGDSKDDAGIRAVCQRMYNTL RLAEPSQGSQNSQVLLDAPIQLSKITEINYD CGTKLPGLLKREQSSTVNAAKLEKAEAR LKAALKRSBKDTLKTTSNPLVLEASAS QAGSRKESRLESSGKNSYDVRIENFDV SFQDRVVLAGADVNLAWGRYGLVGR NGLGKTTLLKMLATRSLRVPWAHISLLHV EQUEVAGDDTPALQSVLVLEDSDVREDLLR REELTSQIAAGRAESEAAELAKTIVYAK LEIEADKAPARASVILAQLGFTPKMQQ QPNPGVSQVAWRMRLALAGALFARDP LLLLDEPTNMLDVRAILWLENLYQTWPS TILVVSHDNRFLNAIATDIIHLHSQRIDGY RIGDFETFIKSQKERRQQQREREYEAQQQ YRQHJOVFIIDRFRYNNANRASQVQSKLKM LEKLSELKPVDKES*VVMKFP*WV*EAL RRFPCSLDEPTVDFYDPKHVIFKRLSVSA DLESRICVVGENAGAKSTMLKLLGUDL APVRGLRHAHRNLKIGYFSQJHHVEA WT*TSVLVELLARKFPGRPEEEYRHLQG RYGIGSELAMRPLASLSGQQKSRVAFAAQ MTMPCPNFYIILDEPTNHLWDMETIEALGR ALNNFRQGGVILVSHDERFIRLVCRELWG

					MRRRR\VTRVEGGFDQYRALLQEQRRE GFL
1180	9231	A	2127	45	339 PPPRTPSVPAG*LRAS/STPPRSSSSSSSSP RKGLSLRPQEALPPPSCRSAPSAPR GRRGETPNKGTTGGSLCQSCHHPPDVQ AVLNKCFEADE
1181	9232	A	2128	484	1879 FOGORMAGELKPSCNLNEQSILLAK(GTS) GSSLTALISQVLKAP*VVVFELLELCNV HELAE*ANAAYLQLLNLFAYGTYPDYIA NKESLP*LSTAQNKLKHLTIVSLASRM KCIPYSVLLKDELMRNLRLELEDLJEAJVY TDIIQGLDQRNQLELEVDFCIGRDRKKD INNVKTLTHEWCDGCEA/ALLGIEQQVLR ANQYKENHNR/TLQQQVEAEDVVYLPQS GNDRCRGLRFVSSLLIGGVRVCVHLKHKD AVVWEAIEEQAELPGYRLKGGRSVWA AAVRACMDQVTNJKTLKATASSAQ EMEQOLAERECPHAEQRQPTKMMSKV KGLVSSSSPLGPAGAAGTHQAQWVRWGG DTKGPFPPLSTCSEFQTCSPSPHORLPTLL VLFOKNCYSPSPTPSPSCSLQTQQLHOC HPKTGSDTAQLPSRRFLSLCKGLVSLPVF LLLPRHFVRLVISRQL
1182	9233	A	2129	225	413
1183	9234	A	213	1	126 FRAWTRRSERRRRKRSSSGSEKFDSK K*KKNSRRKKQHEE
1184	9235	A	2130	356	1024 GRAEPEDLENGEESAAELDYQDPDATSL KYVSG*CHPPSGWG/HEDALIVHCVDSDS GHWRGGGLFTALGKA/SPLKPRKIVELA GENEKTLSLLGVVLLFPV**KIQDTKKGKI CWP*LWSIVNRSNVLSG*#DGSPIRRA* RRY/CLAAKKAGKSSVQPPHVLDMPRK GFKRVGVPPEITLFGKHIGLQRGHPOPYH ILFPLEGKSACPFHSQFFILPSLKDSWCP
1185	9236	A	2131	3	205
1186	9237	A	2132	3	205
1187	9238	A	2133	1	428
1188	9239	A	2134	36	417 QAFRKFLPLFDRVLVERSAAETVTGGI MLPEKSGQKVLQATTVAVGSGSKGG EIQPVSVKVGDKVLPEYGGTKVVLDOK VCKP**F*KEVRYLQLVLTNGFFHLQD YFLFRDGDILGKYVD
1189	9240	A	2135	496	751 ISLNNKHPSFFKGGEIQPVSVKVGDKVL LPEYGGTKVVLDDK/DV*T**F*KEVRYL QLVVSTKGFFHLQDYFLFRDGDILGKYV D

1190	9241	C	2136	92	265	MSLVIIIRFIKGEIWEIIYIMTERISGTSSGM GRHHVDAISNSDLFGSTVLSKNCNNL+*
1191	9242	A	2137	330	875	AYAAGFGDSCLIAMSGRGKQ*GKVFVAK AKSSRAGLQFPFGGRVHRLRKGNYA ERVAGAGAPVYLVAAVLEYLTAEIYLELA GNAARDNKKTRIIPRHLQLGHPATTEEL NKLK*GRVTICFRGVPSP*TSRAVLPLPK KTESSPQGGQGQSDFDRLPELPRKRYSNP KGSSFEAPLPFQRKS
1192	9243	A	2138	25	414	
1193	9244	A	2139	1	65	RTRGRTGRNLSFI*NHM*QIA
1194	9245	A	214	90	943	SPLADTFLSSGLGRITASPRPKAEARGTGR VRGLRRAVRASPGRMGRSRSSRSRKH TKSSKHKKRSRSRSRSDKERVKRKSK SREK*RNRRRERSSRSRST/RHWPCPGAS GTGSAPRPRPTASTSSGARRASAGSLDE KQKARGGGEESGVPSGEKFDSKK*KKN SSRKKOHEE*KNW*QKRVEELEKRKDE IEREVLRRVBEAKRIMEKQLLEELERQRQ AELAAQKAREEEEERAKREELERILEENN RKIAEFAQKLAEEQLRIVEEQRKHEER MK
1195	9246	A	2140	293	444	SPSGYGR*SEASRPTWCSSQFLQRQPPHP EPPKSATWNQTPNIGNLNSLPL
1196	9247	A	2141	544	1553	CQMRSCDRTECSPTTARICLSPLPTAFLT HTYGPKSCRSRSPACDVLGKGRSCRGWGL RLASAWCSCARVSAWSALRPGMSEM ETQSAGAEEQFTQVTRKGGRRAKQRQA EQLSAAGGGDAGRMDTEARPAKRPV FPPLCGDGLLSGKEETRKJIPVANRYYTPL KENWKIIFTPIVEHGLQIRFNLUKSRNV EIRTCKETKDVSDSDKRTQDFVKVAFILG LSGWKHLHLLTJRLADDLFLSFEITDVKP LKGUDHLSRAIGRIA/GAKEGKTFTIEN VTRTTIVLADVKVHILGJSFQNIMARTA ICNLJLGNPPSKVYGNIRAVASRSADR
1197	9248	A	2142	1055	1223	SSPGNLNVQEGRITGLICY*KQYQY*MC FLFL/SLYVCVVVFDFLLFLFCGHPLH
1198	9249	A	2143	2	256	SPGRATMRWSSCPCCGGGLG/SSQGRS EPOGSSRLGPAPS/CLGTHPCCRGPSCPCHIPC PAGRCRTGGC/CPGPHTPSRCPPSNCQQT
1199	9250	B	2144	1	2848	MARRPRNSRAWHFVLSAARRDADARA VALAGSTNWGYDSQDQLLQVTCISSLTG SWLWDAGVPGASAVFDTCAACPVSPNG PAVCCGQEHSDSDSDPEYSTLPPSIPS PVTGESFCDCAGQSEASFCSSLHSAHRG RDCRGEEDEEYFDWWVWDDLNKSATLL SCDNRKVFSHMEYSCGTA/IRGTKELEGE GQHFWEIKMTSPVYGTDMMVGIITSIDV DLJDKYRHTFCSSLGRDEDWSGLSYTOLL HHKDDKTS
1200	9251	A	2145	3	630	RSGGASSGRAEARDCW/GGRRLSPGDR TLEPCCGCNSCSGSPACCVAPA*GPA AADPPACPLSLAAGAGGGSTGTGGKIC AGTG/GG*PSCCSGPWSTPSGRSC/CCS LVAATPREGPSPLYTSCS*KR*VCRARCP GARO*WSPGRITATRSWSCRPCGGGGPC RRGSPSCPFCPAGCRCTCGGICPGPHPTSR CPSSCRCRRERS
1201	9252	A	2146	16	716	SVLESKGQRNKGORKGVPQAEGSSGTG KSVRSGSASLWOGQSRTAGVGGRC PGDRTLEPCGGCNCSGPSPACCVAPA* GPAAAADPPACPLSLGRSICAGGGSTGT GGKWRWHRSG*PSCSGPPWSTPSGRIS C/CCLSV/CCHTV/ITSCS*KR*VCRARCP ARO*WSPGRITATRSWSCRPCGGGGPC RRGSPSCPFCPAGCRCTCGGICPGPHPTSR CPSSCRCRRERS

1202	9253	A	2148	123	488	LKNFRFLDKYCGGTAMSGGEQKPERYY VGVDVGTGSVRAALVDQSGVLLAFADQ PIKWNWEQFNIIHEQSSEDIWAACC/VCH KGDSHRNVIMWLDRHRAVSQVNRIINET HSVLQYVGGMVSVE
1203	9254	A	2149	2	321	
1204	9255	A	215	739	857	IIPPSPNNSNQLNPP***FPGNYY*YFNITQI NKNQNYKTE
1205	9256	A	2150	257	565	INKDPIFVPGVWGPYFSAMVPGFWLNE GGQSVTGKLDILSTNTPHPIITLGNNTSII, KTOLQHQKPLITSPHPKTPQTSLRDTQA SFLCPSSDSLQLSL
1206	9257	A	2151	I	291	VALDTLKGMVTLGKLFQDLEYLAIYL TVQAJALGTRIIHEAMEAAGHSIISTFLCG GLSKNPLFVQMHADITGSNGKNEQSWE SCVPTTG*KU
1207	9258	A	2152	I	1690	FRDDPPRVRARLRAESVYLLKFNFRLD GGTALSQEGKPERYYVGVDTGGSVR AALVDIQSGVLLAFADQPKNWEQFNH HEQSSEDIWAACCVVTKKVQGIDLNQI RGLGFDATCSLVLVDKQFHPLPVNQEGD SHRNVIMWLDRHRAVSQVNRIINETKHSV LQVVGGMVSSEMQAPKLLWLKENLREI CWDKAGHFDLPLDFLSWKATGVTARSL CSLVCKWTYSAEKGWDDSFWKMIQLED FVADNYSKIGNQVLPAGSLQNLTPEA ARDLGLLPGIAVAASLIDAHAGGLGVIG AHVRGHGLH*GAASDVTLAVICGTSS CHMGISKDPIFVPGVWGPYFSAMVPGF WLNEGGOSVTGKLIDHMVOGHAFFEL QVAKATARMPPEYILH*TVTWDLD*GRVQ PVGFSTV*FYMFQDPFHGNRSPSLADLT KGMTGLKLSQOLDDLAILELATVQAA LGRTRIIHEAMEAAGPLJESSTLFLCGGLSQ EYPLFVQMHADITGMPPVVPVARGGSPF LCAAALVLAGCAGSDFASVTEAMAKMS KVGVVFPRLPE
1208	9259	A	2153	I	479	AATSWGAAQTISSPILDKSLPADI CLVFRDVAPQAPVHFVLPKPKIPRISQA EEEDDQOLLGHLLVAKQATAKEAGLDG YRLGE*LLALGPSPMNSHHSYFSI*SSFFLH CHDPPSLTPSSIVNDGKLGQAQSVYHLH JHVLGRLQWPGP
1209	9260	A	2154	284	604	RERRDGGCWSSSSAWGNPREWGFLGN DQRCGTSRLRGPTSREIHKTLAGPHKRIV SWGGSCPRIRGEDGWGCSPRSWLAGAL ATFIP*KAFPPRITPC*RRRPAATVVPPLS L*LLGHLTPMWLSRQQRRLGLGDGYRL VINDGKLGQAQSVYHLHJHVLGRLQW PPG
1210	9261	A	2155	496	1579	NCLNSFSCSMNQMYLLIALMTIEYNLAY DSYIICHIFIKIVYKLTDFLQMLR*ILM QIFW*GSLFL**FOLIRDLPLFAFSLR*KL CPILLKYGILWKQILVLC*R*ILJLIMC DLFALSGIIVFLSFIMRKFSHL*VTVKFIY MSIPRPFVQIL*EHLGLQDIGH*ILSCY** ENRYSIVPLF/CF/VLITHFGFFSLF*IL VFV**FNNPNQNYIPF/CFCSNLTTFPL CFLVGG*CFVKGIIV*DHCFTCHTLHV *STFIY*APGL*FHMNTFW*FVMSSSN CYTLLGT*Q*ICKGKRNNFLYSAANLNFI** IHFPLKIVWIDCF*NTNLWLWFFFSSA ASK
1211	9262	B	2156	302	451	XEFPLKHKPKRTATLSMRNTSVMKKGGF SAEFLKVFLPSLLSHLLAIGLG*

1212	9263	A	2157	1	765	PPLSPGAHVGRGAPTSAPPPAAEAHPA ARRGLRSPOQLPSGAMSQNGAPGMQES LQGSWVELHFSNNNGGGSVVASVSIYING DMEKILLDAQIESGRSSKSHCDSPRS QTPQDTNRASETDTHSIGEKNSQSEED DIERRKEVESILKKNSDWIWWDWSSSAJKI PPKEFLFKHPEAAPTLQAGNRAVMK KGIFSA/ENFLKVFLPLSALLSHFAGPSG LGVIYIGKGVLTSTFWMKELGVLTIV R
1213	9264	A	2158	1	381	
1214	9265	A	2159	2	312	
1215	9266	A	216	263	425	FAFQKFYIYTYF*KHTL/WLGA/VAHGCN PSTLGGGGQIT*DEEFETTLDKMVKS
1216	9267	A	2160	1	576	
1217	9268	A	2161	2	313	VSYYHHFHRMEKAHPEPGTWDSFLEKFM AGE/VWA*LEEGGCEAEWGWWL*RTATL CRCLPLASLVSYGSWYOHVQEWWELSR THPVLYLFYEDMKEVRPTVMLPPM
1218	9269	A	2162	901	1848	RRNRMELIQDTISRVPPLLEYVVKGVPLKYF AAFLGPLQSPQARPDLLINTYPKSGTT WVSQLUDMIYQGGDLEKCNRAPIYVRV PFLFKAPGIPPLRMETLKDTPAIPRLIKS HPLPAUILLPQTLLDQKVVKVVYAAQRKR SVAVSYYHFYHRMAKVHPEPGTWDSF LGESSLVL*KVVLADSWYQHVQEWWEL NRTHPVLYLFYAEDEMKENPEKGRFQKD WSSLGGRSLQEKTGDFQVQHTSKEMK KNP/MTNLHPTVPPGSSMDHSISPLP*GK GMA/GDWKTVTITIV/AQNER/FDADYAEK MAGACSLSLFSRSEL
1219	9270	A	2163	3	287	
1220	9271	A	2164	75	301	AHKKLRAAPLAPMTGTH*KVFVKAGD KVKGNNPSPWVMMFPKMEHTIKSPKD TVKKVYREGAQANRKHHSFSRK
1221	9272	B	2165	63	368	MOKGRSPASPAKADGSHCDPKTAKAK EAPAPPKAEEAKAKALKAKKAVALKGVR HTQKRRSACHSPSGIPRHCDSSGSPDIL GRAPPGETSVATMLSSKR*
1222	9273	A	2166	153	370	LIAGAFRKASGGNNIFRRPKTL*LRRQPR *PKSTPRRNKLGHYAIKPLTTESAVK KIEETNTLFTVLY
1223	9274	A	2167	842	1770	CTPEKCLPAVHRRNWLRNAEPPVWKH LSPICRKQRQGRATKPKRWPYIITPFTTR VRDVALRPYRSRH/GROPHAKKKJIRMSLT FRPKTTLRLRQPRYPRKSTPRRNKLGH YAIKPLTTESAVKJIEENNTLFTVLY KANKHQJQAVVKLYDSDVAKHTEERR HDEQNINILIREAKNRNDNTRNARTETN TETQKNSGYQALISFHSSYYSDTSNDNAH LVSYQSQGCTYDRLGWNLIRMTCRSL QHTYDQSTQIASCHPVSVRVNLRLYC ANYGGISAVFMPLRKELLILTRSSNSKV QLRJ
1224	9275	A	2168	3	281	
1225	9276	A	2169	353	605	EMAPKAKEAPAHPKAEAKAKALKAKK AVLKGVRSH/TKKKIRMSLTFRPKTTLR LRRQPRYPRKSTPRRNKLGHYAIKPLT T
1226	9277	A	217	2	660	FVTRPDAGVMRPLVLLAVLLAVLCK VYGLFGSGSSPNPFSEDVKRPPAPLVTDK EARKKVLQAFPSANQVPEKLDVVV1GS GFGGLAAAAILAKAGRVLVLEQHTKA GGCCHTGFKNGLLEDTGIIHYIGRMEEGS1 GRFLDQITEGOLDWAPLSSPF/CIMVLEG P/KWPKGVPHVQWRESLHSGPQG/GSFH RRKLSLTSI*SWLWYVPVEPLMP/SC

1227	9278	A	2170	301	946	PGSYLKPLSWTVALSLRPQFMSRWPCORLTWQRKSVTQASGAGSAGSLCASRLPRDKTAPKAKEAPAPPKAFAKAKAKALKPKKAVVERCPHTHAKKRIRMSPTFRPKTLRLRROPRYPRKSTPRRNKLGHYAIJKFPLITTEISAGKKNKKNNTPLVHCGCRPTRHQJNRAVKKVLYDSDVIAKVTTLICPDKEKKA YVRLAPDYDALDVANKGII
1228	9279	A	2171	1	1602	
1229	9280	A	2172	243	620	LTSSKVMNLSLLEVFS/VSSQRSPSPGP NITSNSNASNATVVPQNASSARTCSCLTP ALAAHFSENLKHVQGWPADHAEKQAS RLREAHNMGTIHMSIECIELKNLRLSLV RVCIEQATLREQE
1230	9281	A	2173	3	688	RSLSFLRVPQSPIPPLQDPNLLRQLLPAL QATLQLNNNSNDISKINEVLTAATVQTS LQSIHHKFLTAGPSAFNITSLSQAAQLST QAQPSNQSPMSLTSADSPRSYVSPRIST PQNTVPIKPLISTPPVSSQPKVSTP VVKQ GPVQSOSATQQPVTAG/PGPRS/SEPVSPR SSALK*PEKSITWVPIHTSNSNSNQMAT VVPQFFLARSTCSLTAGTSST1Q
1231	9282	C	2174	1	1038	MEDFTPLSTLASSMRQKVNDIQDLD ALQQADVIDYRTLHPKSTEVTFFSALHC TYSKSDHVIGSKALLSKCKRTEITTCNCVS DHSIAKLEFRIKKLQTQNRTTTWKLNNLL LNDTWDNEEMKAIEKVFFETTQHDQNF TKARCIOEHRTPYSQSKLKAETRDPSFF TKNVQKMKRVRDADLAVAALSLRRLGK VWVKAWPPLRGCRRCVLGCCFLAFCIRSL MDVKHSCPVCQRELFYYHRLPRSPRSA YLAVRDIGPKMARDTVNLWPQARDPSE NASPALLQTHAEKVLVRRVSGSLGTTLP RRGDDPTTPEQISFIKCLLKKLSHGFGSE GAMPEEISH*
1232	9283	A	2175	1	1312	MGRNNSQRKAENSKHESTYSPPKDHSSSQ AMEQSWTENGFEKLGFRRKEALYYLDL TASCQSOELFQLYAGMSVVGTSMPVQA VCVYCGNRIJTVTTFVPGALTWLLCTTLF LFGVVLGCCFLAFCIRSLMDVKHSCPVC QRELFYYHRLRQMELESSARTVVPASRP CAGREGRGDANGKNSSSPTAGSAMSSPEP PPQPPPTTHQAGVGLLDTPRSRERSPSPL RGNVVPSPPLPTTRRTFTSATVRASQGP VYKGVCCKCFCRSQRQAIJGNYNPAGWAG PDF/LWHIS*LWKGGVIVPSGKGDGEHP NKMCSHPHIPKE*R/AAARPVKVHHLTL APQAKHETWWSIGIVISSLGGLVESTPTLS LCFVGDFAGRQ-QQTLLEDILPHETGLQR GNGPSVQSPGKGYGGAGVGCGGVPFAIS TAYGPLQOPLHHLKNSIKSI
1233	9284	A	2176	75	411	PIITKEHLFVYILVPSSGLDGIQC*SQKEG RGLAVPTPVSVAAAGLPAASMAEEAADQ VGRALAALWLCPAGRRRGFGGEVMRAL VASRPDLTLSASSGWALGSEGRVKASA D
1234	9285	A	2177	1	361	GIKRRSGREATRALITSPNPFRRPAGQS QARAARPWTWSAASSAMEAAGSPAATET GKYIASTQRPDGTWRKORRVKEGYVPO RRSQYMKTSM*SF-SRVNQSCPG*ALRP LLSPHPGPEGGEPGPQLQGQPNVNLERGE REKEAAAGKRKERAEGLSKDS*LRCPW EETAQLPSAPQGSRAAPTAASDQPDSSA TTEKAKKIKNLKKKLQRQEELQORIQA EVSQPSKEQLEKLARRRALEEELEDLEL GL*GLSPEATAPVTPSRA
1235	9286	A	218	151	414	ERERESVCVCMCVRVCVVCVCLRERERQ RQRDKRLCGEMRKIQQYVNKLHYI/SKYL IYKYVILQT*THIHYIYLYK*ICHTQMY

					AVY
1236	9287	A	2182	3	140
1237	9288	A	2183	365	2078 LVHCHCLDIFINQAFDMQRDLQITPKR LEYTRKKENELYESLMNIANRKQOEEMK DMIVETLNTMKEEELDDATNMFKDVIV PESGEPVGTRIEKCCIRQIQLIISRLNQA VANKLISSVSYLRESVGTLERCLQSLEK SQDVSVHTSNYLQKILNAAHYHVEVTFH SGSSVTRMWEQHQIQRITWVSPPAITL EWKRKVAQEALIESLSASKLAKSISCSQFRT RLNSSHEAFAASLRLQLEAGHSGRLEKTE DLWLRVRKDHAPERLARLSLESCSFTCG LCLHRKPVQLGQELGRGQYGVVYLCDN WGGHFPICALKSVPVPPDEKHWNDLALEF HYMRSLPKHERLVLVDLHGVSIDYNYGGG SSIAVLLIMERLHRDLYTGLKAGLTLTETR LQIALDVVEGIRFLHSQGLVHRDJKLKNV LLDCONRAKITDLGFCKPPEAMMSGSVIG TPIMHMAPELFTGKYDMSVDVYAFGILFW YICSGSVKLPEAFERCASKDHLLWNNVR GARPERLPVDEECCWQMLMEACWDGDP LKRPLLIVQPMLQGI/*NRLCKSINSEQ PNRGLDST
1238	9289	A	2184	2	468 GPEAVPHRACSLWLPTPSGTPATRHS BHEFTFOMWPGCASSSSLCCVGTGPEARA DHRCMRVTPVHLGLPGWVGGAGARPH CCESATPGPRGCPPTD/DWVAAHIPSPF HK/*GNPGCIRGDPGRLLWPLCPMTCVAS DKAPELLGGSACCSVWSVR
1239	9290	A	2185	170	1224 PWVRGPAGPTGPISSTTEKHTRLPSANM MVLKVEELVTGKKNNGEAEFPLPED FRDGEY*AAVTLIERQEDLKTLAHPTVL GEPOLRKRETHARELKKKLEQRSKLE NLDELENIQL*EK/RKKSRETHVPLKDP EP/*HYGTCWECPTLKA/SLWENNLPV EFKFLSDKNNPDVCDEYKRTALHRACLE GHIAVEKLMEEAGAQIEFRDMLESTAJH WASRGGNLDVLKLLLNKGAKISARDKL LSTALHVAVRTGHL*GCAEHLIAEADL NAKDREGDTPLHDAVRLNRYKMIKLLI MYGADLNKNCAGKTPMDLVHLHWQNG TKAJFDSLRENSYATSRIAFE
1240	9291	A	219	4	328 HGVSLLPRLCNGTISAHNIRLLS*SD SPASASQVAGITGMHHHARLIL/VFLVEM GFLHGQAGLELPTSGDPTLPWPSPKCW DYRREPTSPGPQTYYTQSKSSP
1241	9292	A	2190	93	458 LLWTMSVIFFAACVVRVRDGLPLSASTID FYHTQDFLEWRRRLKSLALRLLAQYPLGR GSAEGCDFSIHSIIHQVKWHFNYVSSSQ MECLEKIQEEKLQOPPAVLTLEDTDVA NGVMNGHTPMHLEPAPNFRMPEVTALG ILIJIJNIMCAALNLNQPVQHVLGQLDLG AH/HRKSFIGREKGMLV*VDMIQ
1242	9293	A	2191	1077	1818 LLWTMSVIFFAACVVRVRDGLPLSASTID FYHTQDFLEWRRRLKSLALRLLAQYPLGR GSAEGCDFSIHSIIHQVKWHFNYVSSSQ MECLEKIQEEKLQOPPAVLTLEDTDVA NGVMNGHTPMHLEPAPNFRMPEVTALG ILIJIJNIMCAALNLNQPVQHVLGQLDLG AH/HRKSFIGREKGMLV*VDMIQ
1243	9294	A	2192	1	999
1244	9295	A	2193	1544	1928 OKVRGQIREGCLEEVALGSSRPPAHVCL GLPTGQIADGKSYVVKYQVIGKHNHVAVP THFKVLIILEAAGGQNELRRTYVMPNAP VDEAIPLEAFLWPIESIERASGILLFVQNL ARAGSLKAITAGSK

1245	9296	A	2194	2	1068	ARGWVPPRKPPLAVFVSGREVTLLSSAAPA ALCPWIPRGRGFSKSLAGRPLGRSPAM RALRAGLTLASAGAGLGAVGVEGWRRRRE DARAALGLLGRLPVLPVAAAELPPVPG GPRGPGEAKYGLPGLAQLKSRESYVLC YDPRTRGALWWVEQLRPERLRGDGDRR ECDFREDDSVHAYHRAATNADYRGSGFD RGHLAAAANHRWSQKAMDDTFYLSKX APOVPHSNQIAWNNLIEKYSRSLRTSYQ INVYCLHGHFLPLPTEADIGKSYSVKYQV IGKNHVAVPHTFKVLLIEAAGGOIELRT YVMPNAPVDEAIPFLVPIESIERASG LLFPNILARAGSLKANTAGSK
1246	9297	A	2195	204	507	GSPGTRSETREPAGMSQPPAPPPPLPPPP PPEAPQTSSLASAAASGGI*SGETGESEF PGAARIRSVRVRVYFSRPPVLASSVPSAA SGTSSNSCWGLRR
1247	9298	A	2196	1	460	EFKQLIHIEQPNNGASVHAYSNELSHL SPMEMERFARKSLVGS*CSSENENSGSFP T*WGIWVHGAATYLPDFLDYFSNFPINS PVKMEILGKKDIETTMTSNFHQAQSLTVL QGRQSETPSQKCRKCFMIMLSSRWEGE TKNKYRRLTN
1248	9299	A	2197	199	769	
1249	9300	A	2198	182	2889	TEKGAAAGTAGSCSRRQHASPQSYGSPA SWSFPLSAAPSPSSRSFSFSGTAGAVPS SASASLSOPEPRKLLVPPTLHQAQPHILL LPAAAAASANAKSRRPKERKEKERR HGLGGAREAGGSREENGEVKPLPRAN DKTRSFDDFSFDQAAECLSLRKRRILKG SCQTGYLRKALFSFDTVTLGKASTYFW GGMISQSVKGLAETTFNFWIHWELNDLQ YISALFACSEEMPDYHLEKQLADKIKDKI KRDKEKEKEREKKKKVVMNEIKKENGEV KILLSGKEKPKTNIEDLQIKKVKKKKK KKHENEKRRKPKMYSKSISQITCSGLLT DVEDQAAKGFLNDNIKDDYVGKNLDTK NYDSKIPENSEFFVSLSEPRVQNNLKLRL DTLEFKQLIHIEHOPNNGASVHAYSN LSHLSPM/EGWERFAEEFVG/L/*VSENE NSAFAVYVMGIVHGAATYLPDFLDYFSFN FPNSPVKMEILGKKDHE/TITMSNFHAQV KRTYSHGTYRAGPMRQISLVLGAVDDEEV GDYFPEFLDMLEESPFKCTLPWTGLLSS KLQSRKDSDGPMWVPRPGEQMPVAD MPKSFPKRKRTTNEKNLQYLPRTSEPRE MLFEDTRAHADHIQOGFERQTTAAVG VLIKAVHGEWPDQPRITKDVICFHAEADF LEVVQRMQLDLHEPPLSOCVQWVDDAK LNQLRREGIHYARIQLYDNDIVFPRNVM HQFKTVSAVCSLAWHIRLKLVHSEEDTS QNTATHETGTSSDSTSSVLPQHTDNMIC AVSKASLSDVSFSDKLHSKYELQQIKHEPI ASVRIKEEPVNVNPIKEKTTALNNMDGKN VKAKLHDVQFAEFKIDMDSKFENSNKD LKEELCPGNLSLVDTIQHSSAHNSNQDKK DDDIIC
1250	9301	A	2199	2	122	
1251	9302	A	22	10	284	
1252	9303	A	220	436	777	IYSYGKTGPV*KRKNQCSRRIKEQNPICW LQATHLKKCETYTKLKRMRKICQANTNQ EEIGIL*NSRLYSKNNYQG***KGSILQED MTIILNMYAPKNRGSQYMRQKIELQGE
1253	9304	A	2200	1130	1437	LSRIMIKAWPFLFFKIPFRDKVFLSPPAW SAVAQSRILHCSLELVGSINSSIASLGW EVRCAPQCPG*FLUFFCRDGAIPCCPSWS QVCLP*PPKALGLQ

1254	9305	C	2201	279	449	MHPVSCWVIMSCRPLCTRILSISDPPGP SDICVSRSKKNPSNYPAMVLPQCPCTII*
1255	9306	A	2202	1	1173	
1256	9307	A	2203	1	2112	MGVELFTPASVMGVKRCCSIPGQLSGN GEPRFSEIDSSVSRGGWQPRWFLLCGGI LSYDSDPEDAWKGCKGSQMAVCEIQV HSVNDNTRMDLIIPEQYFVYKARSVAER QRWLVALGSAKACLTDSRQKDKEFAE NTENLTKMSLRCCDLLVQQVNNTK EVTTGVSNSEEGIDVGTLKLKSTCNFLK TLEECMQIANAAFTSELRYTRTPGSPQLA MLKSSKVNQKYITNKEEFTLQKIVLH EVEADVAQVRNSATEALLWLKRGKFL KGFLTEVKNGEKDQTAFLSPSSN/SCV/C WRLGPGDVLT*RKRL*RANAAL*LQ* SQPVASFSSLSP/CGTFINGKEKGCGCFD IFVLMFRLISKKTQTQALRKRFFEKCLH NSYSEPVGSLMHISGQMVPPSHFVPAF SRDTLFLFEMREDNAYGKTLRQHHGWVV RGVFAALRAAPSVEDFVAALTVKEGD HOKEAFSIGMORDISLYLPAMEKQLAIL DTLYEVHGLESDEVLYPLGLCDCCPGE QSWFQKKNVFGCLSQLPVGRGVQLPCG HEGFAKENRWLCLMPLAITPESAEAQNR DNHLWSSVVRVDGELMNDDGLTSALRT QITFGMICCNVNALSSENKVVASLLTIVRF TAAPSLPTLHCVSRHLQVEDPHLVMSVC ECGTTISLPEPRSQLQCSТАVSQLEDSRR MAEH
1257	9308	A	2208	132	509	MIVQITTCGPGLMSTPCGPQAQARR*/ WLWVECLSLTGMGPGEGRGQGAAEAEAP N*VLGTPAGGSGPCCPQIQQTPSPSHFQPH SQVLLSLSPTPRCGPFLAYLSSLFTPREE LQLTQNDTFLAPRV
1258	9309	A	221	212	275	FLINCNFS*KITPKYKSLIR
1259	9310	A	2218	491	812	
1260	9311	A	2219	2	948	IFKIAFAKFGVWAGEWGREGMGSRKWS ARAAAQRAEPRSGRQRVPRALRLLPAPRQ PRQLEPSRPPAAPEPSSPSSAMAGWN AYIDNLNADGTCVTGAIVRYQDSEPPF WHAVPGK/TRFVNITPAEVGCPWLAKTR SSFLR*MGTLWGGQKCVSNRGLHCLQ EWGHIACDLRYQEPGPAGHLSIVTCPHR LNKDAKSWLGMGRKVSHGGLTWNKCY EMASHLSGFPSTDRLRVPFFLSPFPFTAFA PLSLPIHTQTNFYFLGPLHPTVCCQNHM GLOQQGLMGQTSPSTHPSRVRWLEKLLF FGVFFSE
1261	9312	A	222	770	1573	NHLEIVLNCNVGISQSOPQ*LKQATKE KINCIPILKLTFG/TEKVIKVNKRQYIE*Q KISANHLSDKRLVFRYFLKTITVQY*KD KPIK*VKDLMNR/HFSKEDT/YMTNKYMK RC*KSTIREM*IKTTRM*TLPHYRWNIIK KTDNNC**GCG*TGILJHCWLECKIMY P/FRTV*OPPEKVKQHYPDSAAIPLLGIY PRNMK/SKCLPKNYTRMFITELLIILKK*K QLKC/PIN**W/IK*NDKMW*IHMKYSSA IKRHRVLINA
1262	9313	A	2221	259	941	PWSWSLNSCRFFFFFD*QSLSPSVV/QAGS GQ*RNLDLSQPLASRFK*FSSSRLLSSWA DYRHMATMARLIFIELVEMGFTMLARL VLNFLTSSDPPTSAAFKWLGLQGVKPNT RAVGFN**LGYYSIILYHSNSPGTDLVFL FIYFLFTYLFLRQEONSAQAQARVQ*WHLN GSLQSPPPGVH*FLCLSLPSWDYRCAAPP HQANFCIP*RDGVFFCWPWGSRTPDLR

1263	9314	A	2222	343	600	MSPLSQFVDTLLKIQCYGGTEPHSVAI RLECIQMISAHNCNCLPGSSNFSASAS*IA GIAPICHIAPLIFVFL*RQGFTRIYFFK
1264	9315	A	2223	142	583	
1265	9316	A	2224	163	1603	IQAGQCGNQIGAKFWEVINSDEHGDPTG TYVHGDSDLQQLDRISVYVYNEATGVGKY VPRAILVWLEPGTMDSVRSGPFGQFRP DNFVFGQVWGVQVTTWAKGHYTEGAEL LVDSVLDVVRKEAEISCDCLQGQFLTH SLGGTTGSGMGTLLYQQFEEYEPDRI MNTFVSPVSPKCLDTVVEPYNATLSVH QLVENTDETYCIDNEALYDWCRTLKLT TPTYGDLNHLVLSATIE/CVVTICLRFPGQ LNADLRKILAVNMVPPRLJHFMPGFA PLTSRGISQQYRALTVPELTPARSFDAK NMMAACDPRQGINFNRRGLLSSRSGSC PMKEGRMKQML*RCKNKNNSYFCGNE SPNPKVTKAVIDPTS WASKMAVTI JGQ *HPSQELFKRISEOFTAIMFRRKAFLH WVYTGEGMDEMETFEAEISNMNDLRL* IKQLPRMPTQEEDDFGEARKRRPGR APNQLKASQFP
1266	9317	A	2225	234	1374	KSGGLRKRQRGPGRSAAVGEEELPGGMEMK PKAAMLLGSVGDALGYRNVCKENSTVG MKIOEELQPVGGGLHLVLSPGEWPSVD NTIMHIAAEALTTDywCLDDLYREMV RCYVEIVEKLPERRDPATIEGCAQLKP NYLLAWHITPNNEKGSGFGAATKAMCIG LRYWKPERLETJIEVSVECRMTHNHP GFLGSLCTALFVFSFAAQKGPLVQWGRD MLRAVPLAEEYCRKTRHTAEYQEHWF YFEAKWQFYLEERKISKDSKNAKIFPDN YDAEER*TYRKWSSEGRGRRGHDA MIAYDALLAAGNSWTELCHRAMPFHGE SAATGTTAACLFGLLYGLDLVPKGLSQD LEDKEKLEDLGAAYLRLSTEKK
1267	9318	A	2226	139	366	AMAYOLYRNTITLGNSLQESLDEI0GSL NTYFCNDNWWTFVLNDVFEFREVTELIKV DKVIVIACDGKNTGASNTTE
1268	9319	A	2227	160	588	AMAYQLFRILPLETSFQESLUD*LIQSQQI TPPTCPFKFYQLQDRAINAALAQRVRN RWNFRGSPKYGTRFCUDNVGDFWYRN VEFQRG*PEPIKRG*KLVAACDGKNTG LPIIPEWNRKKYDFFYTHLLLFAFEREAA
1269	9320	A	2228	918	1085	QEKLFI*VLCFNFFSFFFFFFCFL/VD**FL FGKGAV*TLEFVFSSASHRYRQGKTR
1270	9321	A	2229	145	365	
1271	9322	A	223	86	427	SPQIRKQEISISSLTDGTILYIENPKESPP KLKLVKIFNKA TRFKINMQMKSVFHLPR N/OPENEFKKKILSFGTEPS/RSEYLGINITK EV*NLNTKNDIVEKMKELLSKWKDSPC
1272	9323	A	2230	2	750	ILGFDLQPQGRRAAAPAVSGLSRKVRC FSTG*VRPFAKLVGPSPVQVYIGEGRYA TALYSAASKONKLEFQLEKELLRVAQN PRRNPKVACFLFLNPLCESRSISKSEKALNN DITSKRRPSPSPSTTQ/LNQFCLAGKMG PI*ANNPKGVASGLFTMDGVFHRSERV PLHSQPLASSFRKESIITLNLKTVLKEFP KVKGQVLELAGKVTIDPSILGGMIVRIGE KVDMSSVTKVQKLGGRAMREIV
1273	9324	A	2231	100	468	ATEPLAPSERREVSIPILLVPAPLPPPRPP VPSRTRTRPWRPP*ACFPMTLAASCPT RSPWPSQQIPQAPAVP/GNIKTLGDAY EFAVDRDFSPEDIVTTSNHHIEVRAEK LAADGTVM

1274	9325	A	2232	228	721	WLWOLHAAPLGAPCLPRQVIRALRGGEV HREGTSAPGRHRRCCGPVLEQVQLHSL QCPCVATKTDVATGTDVAMKTGNK1KTGL DAYEFAVDVRDFSPEDIVTTSNNHIEVR A/REA/ERPDGTVMNTFAHKCQLPEDVD PTSVTSALREDGSLTIRAWRHPHTEHVQ
1275	9326	A	2233	3	605	KKLTPVVRSSRVERDPVRVRRGLRHPVLS SLRPFGQGPAPSDEPONLFHLPGEKJIP FLFLFLLLFTPPPRPVLSSRPRTRPWRP* ACFPMTLAACIGPTRSPWPSQOPAV/VAG NIKTL*DAYEFVVVDVRDFSPEDIVTTSN NHEVREPEKLAADGTVMNTFAHKCOLPE DVDPTSETSALGEDGRLTIRARGHPHTE H
1276	9327	A	2234	229	510	KGIUWYINMEEQFVI*HFL*TRSOFYFVN TFKYIYTHYVQLYHVH/MICKFIFIYNI *IDICRQVIDYRDPKRQLNNCSKFSSLTA GV
1277	9328	A	2235	203	334	SRRDHSFIL*ILHLSIYIHTYMYNMYIYMC YMYQRKQYQGKTNP
1278	9329	A	2236	1023	1470	TPKTKHNSNPFSVPFAHKFACSYFFFCLC VFMGSKLNLLAIYKNVNNSKLYLLRNVIF F*FIFTQLFLILYFFYTVLNTQTYFLMIFL SCSHGICFPILSLSITGWDLTNNNVRGR KYFATVDYYTLKFYIMKIYNSLYASKKK KKA
1279	9330	C	2237	226	450	
1280	9331	A	2238	3	449	LLRRVSVTAVAALSGRPLGTRLGFGGFL TRGF/P/KAAAPVRHSQDHGKRLFVIRPSR FYDRRFLKLLRFYIALTGPVVAIFTLVNV FIGQAAELAE/PEGYVPEHWEYVVRKEL VRKLMHVRGDGPWYYYYETIDKELIDHS PKATPDN
1281	9332	A	2239	3	635	HASAHASAMSLLRRVSVTAVAALSGRP LGTRLGFGGFLTRGFPKAAAPVRHSQD HGKRLFVIRPSRFYDRFLKLLRJHLAL TGLPVTIFIALVNVPVIGQAELAEPEGYV PEHWGILLRHPIKSMGFAR*FLMIGPEK DIMERNNGPSFQIGSLKKAGIYGVKGSSW EVRKI*WHVEEGDQWPVLLWRPFQDQGT LLDHSRKPTPTWNT
1282	9333	A	224	35	397	FLGTQWKG/DSPFNTWC*DHW/NIHRN LDLYLIPYKINLQLTGPNLRAKTIKLP QNIQENLCDL*LSRERYSTKSITRIRKLD TLGFKIKNKCISKDITRKR*ATDWEKIFA NIVLKG
1283	9334	A	2240	811	1005	1005 SNFTGKHK*LTSPKIVNLFIYL/FFETGFH SLTRLECSGMILAHCNLRFPESRKLFFG AIDSF
1284	9335	C	2241	256	540	MSPAKATEMLIFGKKTAGEACAGGLV TEVFPDSTFQKEVVTRLKAFCKLSPNCL EIKEVXRRERXKLXAVNAEECNVLQG RWLSDECTNAV*

1285	9336	A	2242	602	2067	SSSSGLALGMQRPLLARLRGTPGRALSA PAATGFAELRAAQQMAMAYLAWRLAR RSCPSSLQVTSFPPVVLQHNMRTAMRASQ KDFENSMMNOVQLALKKDPGNEVKLKL ALYKQATEGTCCKMPKPGIVFDLINKAKI WDAWNALGSLPQGSCPG*NYVDVLVSSL SPSISGNPPSQVEPCTERDNQLGFTLVVT SIEDGITKIMFNRPKKNAINTEMYHEIM RALKAASKDDSIITVLGNGDYSSGND LTFNTDIPP/GVGVEEKANTNA/VLRLREF VGICFDFPKPLDCSGSMGPSCGASPVT LGAYSMPPVLLHLDGTFHHPF*SP*AQS PEGCSCSYTFFKIMSPA KATEMPFPIFGKE VNQREEACASRDLTEGPFEMALFRKKV WDQG*RAFKCSFPQOMALEFSKEVIRK REREKLHAVK/AECCQPFQGKWLSD CYNNAVVNFLSQKIKNCDDHLLQHQSM SQGRMCCSLLCSSTGTK
1286	9337	C	2243	2163	2402	MSQAAASHKSKLTPKNQRAPFTLLRKSQ CQDPSRGESEEWGWWPQORACRSMETFLP QMFQSWHQIYKNVSRDQFFTLISK*
1287	9338	A	2249	761	1178	LSTPLTSWCWMRRTTPGSPTRCSCSSA PGTQPLGGHQ*RGCHOCVASSPR*AWP ASGFAKLQ*LQQPKTQRAPATGEHVP VQPSAQ*PHSRFQSSSETSRPADGEQZQPA RASGPGARRPHOPROVINCWLRRC
1288	9339	A	225	832	1043	LWWHFLRSPPCGTQQGPWHLVCVYGY AGQWAGPPWHTCPWDPSHCPGTE*CP WCWVFCFCNTYLLVLPN
1289	9340	A	2250	135	408	PHSRFQSSSETSRPADGEQZQPARASPGGA RRPHQPRFHPPPSA/RAISIECPA*AVMR SGSEPRARQEYSLGLWTPSQFLQGILYLA RSP
1290	9341	A	2251	123	578	TTNNPKWAKYFKRHSRDI*MANEHM KRCLTSLTIMEMOIKTTIRCHLT/PRMPII KKIKC**GWRRETGTILY/AWWECKIVQ/P A/P/TVWQFLKRLSLOHPTIPFP/GMCPR KTHHSKTY/TQMFMAALFIEARKWKQF KCLSLNEWTNVVRP
1291	9342	A	2255	209	531	
1292	9343	A	2256	1	308	AKRAQSYAERLRLGLAVIHGEOACTELD MDGRHSPPMVKNATV/HPGLELPLMM AKEPPITVVGDVGGRIAIIVVWLYVIHV QRWHSWLLVSRSLSTGLYF
1293	9344	A	2257	2	1161	VRKGTDLGALPVPPAMNAARTGYRVF LANSTAV/CSELAKRITERLGAELGKSV VYQETNGETRVEIKESVRGQDIIQTI DVNTAVMELLIMAYALKTACARNIIGV PYIPYSKQSKMRKRGSIIVCKLLASMLAT AGLTHITMDLHQKEIJQGFFSFVVDNRL SLHFLAPSIQGRKFPNLQEMQVIVG*V FLDAGKGGQAQSYAERLRLGLFWAVHSR GEFGSCTKLMDDDRGRHSPPMVKNATV HPGLELPLMMMAKEKPPITVVGDVGIGRI AIIVDDIIIDV/ESFVAAAEILKERGAYKI YVMATHGILSAEALRLIEESSVDEVVTT NTVPHEVQKLQCPKIKTVDISLILSEAIR RHNGESMAYLFRNITVDD
1294	9345	B	2258	80	402	XVPTVDTYDGRGDSVYVGLRSKSKKFR RPDIQYPDADTEDITSHMESEEINGAYK AIPVVAQDLNAPSWDWSRGKDSYETSQLD DQSAEHTSHHKQSRLYKRRKAYDESH*
1295	9346	C	2259	272	409	
1296	9347	A	226	764	1016	LLQAGAHACNPNSGFGEAKAGGSTDLRS GDQGQHGETPSLLKVQKVA*RGAPL* SQLLRGGGGCSEPRSHD*IPAWMTEGDS V

1297	9348	A	2260	2	628	EHHSIVGTRLVSGQLQPSQPNAQGKLTT MRIAIVICFLCLITCICAIPVQADSGSSEE KQLQNYKYPDAVATWLNPDPQSKQNLIA PQTLPSKSNESHDHWMDMDDEDDDG PCGDSQDSIDSNDSIDDVDDTDHSHQSD SHHSDESDELVTDFPTDLPATEVFTPVVP TVTDYDGRGDSVYVGLRSKSKFRRDP QVNLPNTDTPGSD
1298	9349	A	2261	67	1276	SHASGRQRSTASSGPDVSQGLQPSQPN ADQGKLITMRIAIVICFLCLITCICAIPVQ ADSGSSEEKHFYNYKYPDAVATWLNPDP SHKQNLLAPQNAVSSEETNDFKQETLPS KSNESDHMDMMDMDEDDDDHVDQSIS DSNDSDDVDDTWDOSHSDSLSHHSDES DELVTDFPTDLPATEVFTPVVPVTVDY DGRGDSVYVGLRSKSKFRRDPDQYD ATDEDITLHMESEELNGAYKAIPVAQDL NAPSDWDSRGKDSYETSQLDDQSAET HRHQQSRLYKRKANDESNEHSDCDW* ARTPKVSRIFIHSHFSSPWRFLCFVAP KSREEDNTPLEFRYSQEDLSASSGQQLK GGKNTISPLCHLVQKNGFIAKMKENHE MLSPVYWLKCVS
1299	9350	A	2262	1	651	MTAFNSGKVDIVAINDPFIDLNLYMVF LYDSTHKGHTVKAENGTLVINGNPI IFQDQDPSPKIKWAP/LAKVIIHDFGIIEGF MTTVHITTAQTQINGPSGNCHVMAAGL SRTSSLSSLLA/LAKPVGVKVIPELNGKLJG MAFHVTANVSVAIDLTCRILEKPA/KYDD IKKINTHSSTFDAGAAIVLKDHSVKLISW YDNEFGYSNRVHLMHANASKE
1300	9351	A	2263	2	5264	
1301	9352	A	2264	56	1357	IRLSVCSSCTVSRIFCVASRATSLRTPM GKVKGVYNGFGRIGRLVTRAAFNSGKV DIVAINDPFIDLNLYMVFQYDSTHKG HTVKAENGKLVINGNPIQFQERDPSK KWGDAGAEYVVESTJGVFNQFWKKA GAHLLQGGAKRVIISAPSCLMPPMFV VNHEKYDNLNSKISNAFLQPLPTCLA/PL AKG*FIDNPG*SWBGLIDHSSMAITGNP RKTVDIGPSRGNCGRGWAAGLSRTSSL GLYWALPKAVGKGHP*G*TGKLTG/MA FPVNPNCQNVSVVDSLTCRSKTLPLQYD *HGRVVKQASEGPQPGQAILGYTEA WVSSDCNSGPVFPFPFDAGA/GIALNNDH FVKLISWYDNEFGYSNRVVDLHGPGL QGSKTPGTTEQARTRGRDEETAGES LPHSPDHITESPLLTVAAM
1302	9353	A	2265	34	476	LSGGPRRAASCASSAGLVLLPFMPMVF VNTKLHRASLPEGFLSKLTQQLQQA RQAPPN*FAFNVFPDQVYVFSFGGSSEPCA LVCSSLISGKIGGAPDAPYPSKLLC/CPAG RSRPLQARTRVYIYINYYDMNMRGQMWA GNNFHLSP
1303	9354	A	2266	63	470	QQPPPERPAHQFARPPAPFTMQFASAKW YDRDYVVFIEPCVEDSKDVNVNFKEKSKL TPSKLSFLSDNVK*STQLNNFDWLVFS LKLILLIFVSLKRLNSFILYSCLOGSDNF KHLNEDLFHCDIPNVSSLYA
1304	9355	A	2267	2	854	RAFFCCVTSRRPASPPVLCTHARSFSVL LFLHPLPLPDRRSRSRFRAVHFWGRSSPP HAAVRLREARRGRDRREKAESPTGEKST SPSSRRQGRPPPTKVRPPAPFTMOPASA KWyDRRDYVLLWEFVFLNTLDRDVNV NPAKSKTYNFSCSLREGSDN*G*MEIJ LHFHICIDPNDFQGLKGTDRSIFMFVLRKR RIWASSWPGLTKERGKGKLIWVSVDFN NNWWDWEDDSDEDNMNDFRSEWMNN MGDDEVDYPEVDOADDSDQSDDE

				KMPYLE
1305	9356	A	2268	117
1306	9357	A	2269	66
1307	9358	A	227	748
				1488 RLTKRPETFPRRHPKLPPLKTPVAGATPL SPSHPDWPVFNPPIPLTNRT*PPLQLOLRO PSRSCEPTEQQPAISSEALPVRSPPPPFR LFPTPE/PGLSRQWP*EVEGTSTTPFKAE GQK/EGKVKEGKTEGPCSPSRTRLPPY SRLESGP/VHWEQGPNRKSWPPPNLPPDQ GF*QEREEAMGHPSPGIRQRHRTSVQE *GSEIKPK*CEPEGKAFNPRPWGLT/TR PLPLHSQKSQRQDS*NTG
1308	9359	A	2270	148
				398 RPARKRGAAMDGRVQOLIKALLALPIRPAT RRWRNPPIPPEFTDGDTDRLPEFIVQTAS YPPWARTRSSARPISSPPPETSCVLA
1309	9360	A	2271	356
				1241 KVFLITLRTGPALQVGDPLHQEGEPPQ LITGAFWPMEPMKRVFGWGGGRGLLGRRET LGPGIGGCGSGBGPCLCWPPPGSPAPSF RASPPLEPPRRCPLRSCSLPSSACLCSRNS APGSCCRPWA\$WSEPPSPSSQAPP YIWTLSCAPVAQS*APVTHWTDHPLPPL PSPLLPTRLPDDLIHFGPQTLRCQSHRH PSIHPHQDCWLLM*IWTIHLGGUWAQGH SPWTWV01TAGRPDRDLSPSARPISPIPE TFCAPATVLPGLSCAWQAKFESLJSLWL TKLVAIHKRSIS
1310	9361	A	2272	2
1311	9362	C	2273	88
				228 MKVDKDRQMXVLEEEFQNISPEELKME LPERQPRLQRXTDDVCRE*
1312	9363	A	2274	3
				382 VDRTIMSDSLVVCEVDPELTEKLRKFRF RKETDNAAIIJMVKVDKDRQMVVLEEEFQ FVVYSKYYVHDGDRVSYPLCFIFSSPG CKPEQQMMYAGSKTRLVTQAEITKVQT GMWLQSVERWCGSVV
1313	9364	A	2275	89
				636 KTAELKEEACQONNHALPGSLRQSDSL VVCVEVDPELTEKLRKFRFRKETDNAAII MKVDKDPARWWCLEGKNNFKNSPOREL KMGFRRRDKPRFVVYSLYKVVHDDGUR VSPVLCFIFPPRPGCKPEEQMMYAGS KKNRLVQTAELTKGVPKSRTT*LTSLRP WVQEKLSFLSLSISGAGD
1314	9365	A	2276	2
1315	9366	A	2277	1
1316	9367	A	2278	1
				884 MVDKCRYHQRSLLHKVSNSEKISSGLLL SRLQRRPRGRGDAELLRAGSVKRRQRG KMAAAVQORAWTVEOLRSEQLPKCDII KFLQEHGSDSLLAEHKLLGNKVNKGKT ANKDHUVTAVNHLFETKPF*GYLKVS'S KVSEQVKKCARLMKINPKETKSERDPW NEGPVKYTKSCS*KRGDKTQLFPKRGD VVIHCWVYUGNTTKMGTIV*YLFQI'SA KKKEKCP\$*GFKVRSRPLKSRGWDEA LLTMSKGKEKARLIEIEPEWAF/GKKGLPD AKIPVNAKLTAEVEVLDID

1317	9368	A	2279	3	510	AIRAVAYCADMAQSMNHTLHQHSRJRH RIGIKKPRSDTQSLTVGDPMLNKMR AKKHHNMMGLKRMQANAKSAMRARE AIKALVKPKEAYL*IPNGVSKRLDPLAYI AHPKLAKLARIAKGLKLCRPEALAEA RAKDQTKVQGVAPA*A*PAHAKPRTQAP TKASE
1318	9369	A	228	34	478	LSPRLECGSGAI*AHCNLRPPGFKQFSCSLSL SISSWDYRHPATPTQLIWFWYFK*RPGF QLVLVQAGLELTLT*IPPASASQCKWCWD YQV*APH/WPALKYKVSY*EKWFPIMFFA PFSWLSLGTEKFKVRKVVKVAGLGLTPLTG WALCSLWKY
1319	9370	A	2280	9	674	IERLQVRVIACSCRDIAUPGSSHASAHASEA LREPPNGRQADMAKSNKHNTHNQNSRKWR PURNIKKPRSIQRYEFS*RGWPPQVSLR NMURFAQRSTNKKWGP*PRLQANKLPRAM SATCPRLIKAPPLKAPRREPKQDPPKGVIS RKLDRILAYIAQPOGLGSVARCP*LPGRP RLCPPKAKQOGQOGQAKADOTKGFKPF RPRVQAPSVSIVQAPKRTQAP*TKASE
1320	9371	A	2281	417	822	RENCILLSTRAQSVAQFGTALWFSQFQH ATGEGGAGHGGGLRMPLRSLPSQGASAC* /PRFGESKLAPVGKPKMCLLELPFLSHN L.SRGCSASEGQCLLVEVPATARVGWVHK PSQSRGLFESWVMSLDCSGPL
1321	9372	A	2284	85	409	TGLPMLCQKQTVSWSGGKPLTSRRLPFPQQR PRPRGQOPPSQARWEH*/PPGTTAPRRSR RSPSPARLAGP*EAKSLHAAANSRGQTQK GHLWKTVLVFKPNFFFFNHN
1322	9373	A	2285	193	609	NQINFCLNGKYTIVICIDTLPLYMFNIHIL KHINTSVIISLEAF*HKGQVELHIKITYRS N*MWLGHINQRNL/CPQEGEIPNEA*IF SIKRSQSWPVTVAHACNLJLTLGG*DGRIS* DQVFKTSNLINIVETPSLLKK
1323	9374	A	2286	117	433	
1324	9375	A	2287	2	1923	VETPPOQGSVHSGLGSVHGDGPHHTGTGN AGERGPRKGKGVARLADLSGMDPSSPLSP LIRTPESSLHEALDQCMTLADLFLTNQFS EALSYLKPRTKESMYSHMLTYATILEMQRA RRKSSVTDSSVLVRNPTLQGTEEEIHA EVCYAECLLQRAALTFLQGSSHGAVARPA RALHDPSHACSCPPGPGHFLQFLQDEN MVSFIKGIGKVRNSYQTYKELDSLVOSS QYCKGENHPHFEFGVGKLVQGAFNLTLS MLPTRLRLLFEVGFSNKGVDLQLQEE GASGHFSRSVLCVMLLCYHTFLTVLGV TGNVNIEEAKLLKPYLNRYPKGAFLFF AGRIEVIKGNIDAVIDSDGGPGRGWGSGLGV SQTSRSGTCDILRDRIDWGRGGGPREN QFESRGRGGPSGRAWEVDKGGGGICGA WDFDWEI*DCSIAVEGGGRCLREAEV KAHLFRA*RLGWSLVPPLHYSSLLFHFP VTKNOSPRRLGLYSLSTSCKT*EVKPGLE ARSPGSWPIT*A*HAGPLCPGCVPVCC GVGRFGGCRGVGAGAWPVRLLTRCLQ AIRRFEECCAEQAHQWVKQFHMHCYWEL MWCFTYKGQWKMSSYFYADLLSKENCW SKVG

1325	9376	A	2288	I	1818	LGEGGGKKGLWDLVAGLHPLGGQQSP MQOKGHKDSLWYPCGGTPESLHEALDQ CMTALDLFLTNQFSEALSYLKPRTEKSM YHSILTYATILEMQAMMTFDPODILLAGN MMKEAQMLCQRHRRKSSVTNSFSSLVN RPTLGQFTEEEIHAEWCYAKCLLQRAA LTFLQDENMVISFIKGKGVRSN Y QTKE LDSLVQSSQYCKGENHFFEGGVKLGV GAFNLTLSPMLTRILRLLFEPVGFSGNKDY GLLOLEEGASGHSFRSFLCVMILLCYHT FLTFVLGTGNVNIEEAEKLKPYLNRYP KGAIFLFAGRIEVIKGNIDAAIRRFECC EAQOHWKQFHMCYWELMWCFYKG QWKMSYFYADLSSKENWSKATIYIM KAAYLSMPGKEDHKPFGDDEVLFRAV PGLLKLKIAKGKSLPTEKFAIRKSRRYFSSN PISLVPVALEMMLYIWNGYAVIGKQPKLT DGHLEITKAEMLEKGPNENEYSVDDECL VKLLKGGLCKYLGRVQEAEENFRSISAN EKKIKYDHYLIPNALLEALLLMEQDRN EEAIKLLESAKQNYKNYSMESRTHF*IQ AATLOAKSSJENSSRSRMVSSVSL
1326	9377	A	2289	486	713	SKFYLFYFLFVFFVYTVINIVYIKI*Q*QID LNIFYLFYLFYFWRQSRAFLSKL*CSA NMTHLSSLNLPGRSNTPAPALQAAGTG M*HHTWLIFVVFVETEFHHVGLKFLSLD IHPWPWSVLG*QGGWIV
1327	9378	A	229	28	359	KGKIPWLCGI*PONEKLM*HSKSLATVFC IYR/TN*KNKRIISINAEKAIQDQIQTMFNF LKNF/MKTVRKLKMDGSILNIKEICERP TNM*DGEELDDFPKGDEAQRP
1328	9379	A	2291	I	774	
1329	9380	C	2292	214	483	
1330	9381	A	2293	701	1033	
1331	9382	A	2294	440	1383	SSSWNRAFSRKDKDTWMTPEALSKHFI PYNAKFLGSTEVEQPKGETEVVRDAVRK LKFARHIKKSGGQKIPKVIELQISIYGSK NS*DPCIKTREVQHNCQLHRIIFCACDDKT DKRIFTICKDSESNKHLCKVYFDSEKCA EETITIGQAFDLAYRKPFLESGGGKDVETR KQIAGLOKRIQDLETEMELKNVKYQDLE NQLRITQVSAPPAGSMTPKSPSTDIFDMI PFSPISIHOSSMPTRNGTQOPPVPSRSTEKI RDLFGAEPFDPFNCGAADFPDIQSKLDE M/QAPEMEGFKMGMLTLEGTVFCLDPLDS RC
1332	9383	A	2295	412	842	GKVSPPGL*GP*GEQGPLGVPSGAATGLP HSLCPEAFASPRSVYR*DQAQLALWAV PL*EGPL/PDLVRGVVPGSPVKGPGDEV T/CHSCGRFPRALGQSCTLPPNLPLTTRR GVNSEDLPSPVYRAADRGNRFPVGAVG SCHR
1333	9384	A	2296	I036	1429	GRAWRTCPRAIIQPRRSHLRPSSCSTLQ RGV*SPPPGRSSSPVQP*CA*ARGWGSGP *HWTCLFLAWQSPQCTGPQICQYPRPLR SPRPAGPGGTSGHSPPDARAPRPRPAP CGRECSSSSGRNAAPLG
1334	9385	A	2297	44	396	
1335	9386	A	2298	298	409	

1336	9387	A	2299	123	1221	KRQFLPLSLWAMAASGSRMAQKTCWELA NNMQEAQSIDEIYKYDKQQQELCGEA LDYGVRSHIHYFKYCKNSALALLKMMV HARS/EGEGLLEVGMGLMLGK/WDGETJM IIMGKFFFCLVEGTNTERVN/SLQAAAYEY MAAYIENANQVGSPENAIGWVYHSHPG YGCWLSGUDVSTQMLNMQFQEFPVAV VIDPTRTISAGUKVNFGFWAHPK/GGYN PPDAEGPVGPGVPLFLNKIEDLGVHKCKQY YALEVSVFKSLLGSQNCLELLWNKIJWG GIRWSS/SLAGLNADYPTGQVL*FVLKK LEQSRSRSPSLGRGEFPCWGPLETHDRKSED KLAATRSSUCKLPIEAIHGLMS/QVIKD KLFNQINIS
1337	9388	A	23	3	438	LFISLSSIEKUHENCWVYLSAARS*ALRKL AFF*ATRSFF*ARDILGRFHLLF/CNFFLG LLFDWILSYSSMSFLIHLHLPAGQQQAS TICCSIIQCQANLHTIFWQFVCIRCADYHIP LYTGISNLNTNDISVCHTNYHPVIGVW
1338	9389	A	230	1216	2017	HPRGAKYKPETPNPGFVTLSYVGPFDPSRQL THSPSRSEN/ACGHRPGELNWLNCSCGL LVRPGKRVWTETCNLVWKTEASGP/PP DPLPSLSSPITHTQARPT/DTQAHCPCAPCP PH*PLALNPQQNFCPEESAQVGQGEED RTSRGWWIGGSOPQVQAGK*PLSTGSKA QGARLTGGGVPSPLR*EQALVRCRCL CRLGSCVRSHSLKFIDEAGEAPSAAGLD GQGTGRAPGAPEARCPRPAESEGEFGGSG QAPAEQDPQPRAALRA
1339	9390	A	2300	2	433	
1340	9391	A	2301	1	2423	MAGALAGLAAGLQLQVPRVAPSPDSDDT DSEDPSSLRRSAGGLLRSOVIHSGHFMVSS PHDSLPLRRRDRDQEVS/VPSPDFGPRSIDPT LTRLFECLSLAYSGKLVSPKWKNFKGLK LLCRDKIRLNNNAIWRRAWYIQQVYKRRKSP VCGFVTPLQGPEADAHRKPEAVLGEN YWKRRIEVVMREYHKWRIYVYKVRVSSG GPRGPQSFPAAAGYRPPRKIPCKGILITP ELAPLGPISQSRADSATWVOPRLLAASLP RGRRLRKPSPREDDLLAPKQAEGRWPPPEQ WCKQLEFSSVV/PVLLGDPEEEPGRQQLD LNCFLSDISDTLFTMTQSQPSPLQ,LPPED AYVGNADMIQDPLTLQPSLDDFMDISD FFTNSRLQOPPMPSNNFPEPPSFSPVVSLSF SSGTLGPEVPPASSAMTHLGSHSRRLQAR NSCPGPLOSSAFLSSDFLLPDEPKPRLPPP PVPPPLLHYPPPAKQETVPEFPCTFLPPTP APTPRPPPGPATLAPSPRPLLVPKAERLSP PAPSGSERILSGDLSNMPGPGLTSVRVSP PQFLSLSRGRPDSNKALLGSLQSPNSSLPE TENRRTIIAEQVKRERFNIKLGFDTLHGL VSTLSAQPSLKVSQSKATTLQKTAEYILMLA QQERAGLQEEAQQLRDEIEELNAAINL CQQQLPATGVPRITHQRFDQMRDMPFDID YVRTRTLHNWAKFWVVVSSLKPMAGGIQ GLWQGSSLTWAQFSILRPLFESFNGMVS TASVHTLRQTSALWLDQYCSLPALRPV LNSLRLQLGTSVTSILVTDPGRIP*EQATRA VTEGTLGKPL
1341	9392	A	2302	1	535	
1342	9393	A	2303	155	276	
1343	9394	A	2304	1	477	

1344	9395	A	2305	221	2323	LGLOMHTTSGRHQAMVTSNLNEDNESVT VEWIENGDTKGKEIDLESIFSLNPDLVVP DGEIEFPSPLETTPPPASSAKVNKIVKNRRT VAAISKNDDPSRDNRVVG SARARPSQFP EQSSSAQ QNGSVUSDISPVQAAKKEF GPP SRRKSNCVKEVDKLQDKREMKRLQQQE LREIRAQDVDATIPIPYEIMCMIRGFTGS LDYRPLASADPIDEIRYVVCVRKPLNK KETOMKDLDVITIPSKDVMVH EPKQK VDLTRYLENOJTFRFDFYAFDSDSAPNEMV YRFTARPLVTTIFERGMATCLAYGOTGS GKTHTMGGDFSGKNQDCSKG IYALAAR DVFMLKPKPNYKKL E QVYATTFEIJSG KVF DLLNRKTKLRLVEDGKQVQVVG QEREVKCVEDV LKIDIGNSCRTSQTS ANAHRSRSHAVFOQILRLRKGKLHGFSLI DLAGNERGADTSSADROTRLEGAEINKS LLA LKECIRALGRNPKITPFRASKLTQV LRDSFIGENSRTCMATISPG/MWASCEN TLNTRLYANRVKELTVDP TAAGDVRPIM HHPNQDDLETOQWVGSSPQRDJKL LCEQNEEVSPOLFTTHEAVSQMVEMEE QVVEDHRVAFOESIRWLEDEKALLGD*L EEVDYDVDSYATQLEAILEQKIDILTEL DKVKSFRIAALQEEEQASKQINPKRPRAL
1345	9396	A	2306	264	451	VLPNLTWHA SPITTIKIWAGIKVTHAYNPS TLGGQRGRIA* A QEFKTSLSNIMGLRSK KKKK
1346	9397	B	2307	1	642	MLEEQLVRMLTREVMIDLITVCCVSKKG ADHSSAPPADGDEEMMATEVTPSAMA ELTDLGCKCLMKHEVLSGTTLLADAVTL FTSVLKGLOMHQGDGCMASLVLHAFQ IVEALRPRYPLEIRAVMCEPE/QKDSLSDQF DCKLLNPSLQKVADKRRKDFKR LIA GC IGKPLGEORKEVHKNLPSLFKKTPML ETEVLNDGGGLATIPE*
1347	9398	A	2308	3	101	STHASESNFSICSLICFCLEAPI SLSA SLEDQPAWAWALCGGGRAPSTT* PPLSL* HL
1348	9399	A	2309	360	483	SMCLTVSMLVTACPADPCVT* A* NRSSP EVPPPWTSDLRFF
1349	9400	A	231	5	399	DGVSLV/SPRLEYSGAISAHCKLRLPRFK *FSCLSIPSSW DYRHVPPPANVSFLVKT GHHHVQAGALELLTSQDLP TS A/FPKCW DYRCDHCAWAKD* KFKCVS VGRGGP GEAVHQNSNRLSYWWEDGGKTG
1350	9401	A	2310	100	190	
1351	9402	A	2311	2	193	WRRRRRRCPQFQSLIWSGMRS P KKLTP PR* NYLRQALRNNLSTLRRPFAQETAWY QWCFLGL
1352	9403	A	2312	103	237	
1353	9404	A	2313	3	1361	VETQEKGTTIIEGRITATPKESPNNPNPSG QCPICRWNLKHCKYNYDDVLLLSQFIRPH GGMLPRKJITGLCQE EHRKIEECVKMAHR AELQRELQLRSLPLPATQVYYQITGLGFLK ELPRRANPNSTGPLAKAQGGYLT RWAP GSV KPIYKKGPRWN RGEANRKAHFSTV QWPA P SAIHA KDD DVSP LQPTQCLL DNI KKV VPLSLGRPGNTDSTCQESRSIY LKS QALAVFTFHFLTATAEQAEPQS QLLSPPPG LGEKPPADLVLQW/SEAPRAKQH VCTSP SHPAQRVRSSSDSUEHPAAASHPRRPPR GTNGWSRKGS CRAS WSRDCS GVR SRKV ALGMAMDQVNALC EQLVKAVT VMMDP NSTQRYRLEALKFC EEFKEK C P C VPC P G RLA EKTQVAI VRHF GLQILEHIVVKFRW GMSRLEK VYFEEQWSWNLIAKGPFEHF GRGEPY

1354	9405	A	2314	138	397	SHCPLSMHVGGRPSWWGGTGV*LWPR AC/RVGLLPLSTGAGGTLEALLSVTAS KVFLELARHCPSEGVNPTGHAJHPVPSRG PFL
1355	9406	A	2315	16	546	QLNQGRSIRHEVMSHRKFSAPRHGSILGFL PRKRSSRHRGKVKSFPKDDPSKPVHLTA FLGYKAGMTHIVREVDRPGSKVNKEV VEAVTIVETPMVVGVGVYVEPTRGLR TFKTVFAEHSIDE/CRLLPLRQKKAHLM IHVNGGTVAEKLDWARERLEQQVVPVN VFGQDEMIDV
1356	9407	A	2316	2	451	PRAKAQKGSPVLWAQKSCPPKTTRALA KVAICAGAWHPARVAFSVARVGQKQGYH PRTEITKKYIKIGQGYLIK/DGKLJKNNA STDYDLSDKSINPLSLVQTKRRALEKID LKFIDITSKFGHGRFQTMEEKKAFCMGPL KKDRIAKEEGA
1357	9408	A	2317	I	625	CKPRVMAHTLRLPLRKKAHILMEIQ VNEGTVAEKLDWARERLEQQVVPVNQVF QODEMIDVIGVTKGKGYKGKVTSRWHTK KLPRKTHRLRKVACDKDGLKLNNA DYDLSDKSINPLGGFVHYGEVNTDFVML KGCVVGTKKRVLTRKSSLVQTKRRA EJDLKFIDITSKFGHGRFQTMEEKKA MGPLKKDRIAKEEGA
1358	9409	A	2318	I	1251	
1359	9410	A	2319	I	903	
1360	9411	A	232	481	525	AA GT YSL *IGKE*VRLSLSVDSMILYIDN LKLTPRKTLLTDKF SKI SEYNSIVF*CIND EKA EK IERK TIPPTIIK R*NTS DLT KVK VG LYK GNEY K TLM KEIN K W K D I PCA *IRRN I KIV YPK *T*FKAISI KILL SFV T E I K K I P K F I *NQKRIRIAKATLSCWNLFPMNSW H RC
I361	9412	A	2320	I	1341	
I362	9413	A	2321	I	1131	
I363	9414	A	2322	10	1304	ESDGVTSHRKFSAPRHGTLLGFLP RKRSSR HRGKAKSFPTDPPKGPHLTFGLAYTAG MTHIVREVDRPGSKANTKEAEGAA TIVE I PPMVSVGIV/GYVETPRGLRTKTVFAE HISDECKR RYK NW HSK KKAFT KYC K K W Q D E D G K K Q L E K D F S S M K K Y C Q V R R V I A H T Q M R L L P L R Q K K A H L M E I Q V N G G P C G P R S W D W A R E K L E Q Q V P V N Q V F V G Q D E M I D V I G G D P G A Y G K R G S P V R W H T K K A A P A R P H P R A C A K V G L V L C A W H P G R V A F S V V A S R W G R K G L P F H R T E I N Q G R I F K D W P R A T L I K D G K I K D Q C L H N V D L S *P R A S N P L G G F V H Y W *S D R N D F V M L K G I C V V G T K K R G A H P F R K S L L V Q T K R R A L E K I D L K F I D T V S K F G H G R F Q T M E E K K A F M G P L K K D R I A K E E G A
I364	9415	A	2323	138	737	TTTMSKKAKTTK K R P Q R A T S N V F A M F V H S Q I Q Q V Q R G P F N M I D Q I N R D G F H S D K E K V L H D M L A F S R E E S P L D A Y L D A M M N E A P G P H Q V S P W F L T M F W * E S L N R I D P L K I V I Q K P P F A I C F D * K K A T R H P F R E D Y L / R E E L L T N P W G D R V Y Q I E E V G * T C T G E A P I * Q K K G N F Q I T S E F I H G I L T G R P P K H K D D L K E L L A
I365	9416	A	2324	2	307	
I366	9417	A	2325	2	215	
I367	9418	A	2326	I	213	

1368	9419	A	2327	2	935	FRPRYEGRRGCGCRVRLRRLGRHLVDC GKLNKLTSTCGKPSNSRMSLQWTAVAT TFLYAEVFVVLICIPFISPKRWWQKIFKSR LGVVSVPMGNTFF/LVJLIVLVLVIAVE CRAAKFREVWMDVDGKRVNLPGTIPGG HGEALSHMEAFSVAPGGNLLHWLGFSL LLSFLRRLAVTLISQQAITLLAASNEAFK KQAEKC*VKAARKYMEENDNQLKKGAP FDEGKLNFEAELKLEEKVNRELKANLQ KLKDELQGALSKKLEKG*KTSFWPMRK QFMRLQT/ERYDRILLEEQPKAAGLQV DGPMDKKEE
1369	9420	A	2328	2	1217	QARGASLRPSLRLRIPSEYAFTMQLRLFRR LLAALLLVIVWTLEFGPSGLGEELLTLSSL AFLLPAPALPGPPLALPRLLPTQEACCGP GAPPFLLJLGGTAPENLNQRNRAIRASRGG LREARGLRVQTFLFLGEPNAQHIVVWGS QGE*TGPSESAQGDLQAAQFDSDYRN TLKTLGLNWAEKHCPMARYVLRITDEED GIANVPELVSSELVLRGGRWGGWERSTEP QREAEQEGGOVHLHSEEVPLLLYGRVHW RVNPSRTPGGRHRVSEEQWPHTWGPFFFFP YASSTGYVLSASAVQLILKVASRAPLLP LEDVFVGSARRGIGLAPTCVCKLA(GA) THYPLDRCCYGKFLLTSHKLDPWKMQE AWKLVGGSDGEKDCAPFAPWFPGKSL GILCRVIAIAWLQS
1370	9421	A	2329	1	395	AINYNEKJYELRVMETKPLDKAVSIIED MNVDFFDAP/LGYKEPERQVQHEESTEG ADHSGYAGE/LGFRAFSGSGNRDLGKKK GVEPSPIKPGDIKRGIPNYEFKLGAEAG GRFVAFSGEGQSLRKKGKRKP
1371	9422	A	233	20	129	
1372	9423	A	2330	1	1494	
1373	9424	A	2331	2	1062	GRAVGGVSSLHCPERSGVQCQVVSIMPSF NMFDHPPIPVRNQNRSTQYRCSFLSML AGPNDR/SSIGEKEGIKIMPPSALDQLSLR L*HYRIPMLFKLTNVRNSDRMTALLQCLE FVADEGICYFPFTL/WMMQNLLVEEGGLV QVKSVNLSSATLLPNFQPOQSPUDFLDITN PIKA/FPENALRNFACLITTDVIA/INYYNE KILRNCVVMMETQ1P1RPPVSHH*SVNH*T VDFDCPFLGLPKNPGKTSKSHHEESEQKV KADPTVAYAWKSLCFPRFSRGSQGNRLD GKKKGVEPSPIKPGDIKRGIPNYEFK LGK1T/VSRSNSRPLVKKVEEDEAGGARF VAFSGEGQSLRKKGKRKP
1374	9425	A	2332	1	214	APARSALCSGSAPRTSGQPWGTPAAPP FHQRNTPCPWSAPPSSGAAPWGSTDKGQR LDGPCCAPFPFRGLSM*SKVPWWPA*TA PAPPSPFHORNTCPWPWSAPPSSGAAPWG KGQLDGPCCAPFPFRGLSM
1375	9426	A	2333	1	1515	MAPLQQHIAVLPTTADQVTTEDDGYT WTALQHVATAKEKRKSSQ/TMEESQDFP LHPRPQAQGTOARVAPSPGPKAWEAAG PAKDAARSEKPGGRKAPGGRGQLTCCR SLSPVQPPVSVPSDSLRRSPCSPADW REAGATSLDRIRPILVLMVDDKKLVVVFG STGAQGGSVARILLEDGTFKVRVVTTRNP RKKAKEELRLQGAEVVQGQDQDQVIME LALEWAYATFIGTNTWESCSQEQEVTP A/GSLDRIRPILVLMVDDKKLHVYVVS GAGTTSRS*RQGDWPPRILTAKGRWRN SGTIAFF*PVWGFNLANLENLLQLFFPR KTEGKELLCGACPOVTFPWWMACPCLT WGPVILSLFEDARKRIRPHEHRG*ALAGT RPRSTLCPSPSTPARSTMKP*LPEDYEK LGFPGARDLQHQVHPFLCPETPTRDII/SLT LRLNPKAITLTDQWLGTAQRGLOPAVTL

					PASRPLVGIRGHQRGKKAPTSEIKPICSPK KKKK
1376	9427	A	2334	3	1037 ILRSVARAQRGRRSLRFHWSPEGGHGGRS EAGAAGP/VERRRCATAAPQGRVPGL/PS KLGGIPDAPLTVAAAPRVPCQRCGQPLAL VVQVVCPLEGSPFHRLHVFAACPCGCS TGGARSWKVFRSQCLOVPEREAQDAQK QGNSLAAEDWCEGADD/CGK*Y*GGAFT TVYLGFWB*QQC/HKT*TGLLGSKTS/C LQOAVLGAAHPVPPGGLFLFPYVICVAD EDYRDFVNLDAHSSLRDYQVREGIA MDQQLLSQLSPNDGDEK/S*EDHN*KVGG SRPF*QIP*KRNWLLVREQLRVFPGVES HSP*PAPTSETEPLSLQPVWEAKRIFEP QLMPALGQHASRVL
1377	9428	B	2337	240	387 NGKERGTGDVKLLKHKEKGAIALLMRR DKTLKICANHYITPMMEKLPNAX*
1378	9429	A	2338	1	152
1379	9430	A	2339	1	830 MRRPRRRLCWLRCLVECGPLQSRSAVG NSEEEQRKAYVFFSLSLVDTDEHDHTST ENTDESNHDPQFEPVPSLPEQEJNKTLEED EELFKMRALKRFASENLDPEWKERG TGDVKKLLKHKEKGAIJRLL-MRRDJKDP *KICANPLPSRP1IMQAEESTAGRRSVPW VLETPHAIDFPNECPPSPLELPGPGRFLN A*RMQPKFQNQSFEEELQGRKSEGEEEKE SRQGKNDSL/HRKKAECPKGSSLR*REE TKDAEAEAINRJLLSFSSLSLS
1380	9431	A	234	16	370
1381	9432	C	2340	392	631 MRTAESCRRLSWAALLGSHWRCCSHPC AAGGCPYPRAAVNPGPRTPLAYLRFKEM FSSGLINVEFPQFQLYSHFHSLLR*
1382	9433	A	2341	3	121
1383	9434	A	2342	1	2970
1384	9435	A	2343	48	1493 DGQYRIWWLIEWHVHDGGCGDTETWKD RWNHVKKUFLERSGPFTHPDFEP/STESL QFLLDTCVKVLVIGAGGULGCELLKLNAL SGFRQHIVID/MDTNDVSN*IRQLFRPK DGRPKAEVAAEFLNDRV/PNCUNVPPH NKWQDFNDTFTYRQFHIVUCGTGTLSCA RRWINGMLISLUNYERMV*DPSSIVPLI DGGTEGFKEANARVILPFGMTACIFCTLE LYPPQVNPMCTIASMPRLPEHCR/EYVG MLQWPKEQPPFEGEVPLDGGDDP/EHQWQI FQKSLERASQYNNRGVTYRLTQGVVKRJII PAVASTNAVIAAVCAT*/EVFKIATSAYIP L*IIWWFNDV/VDGLYTTFEGREKJEN CPACSLQNPONISVFLHQAKLQ/EVLGII NSASLQNEILPAITATLGEGIKITLYLQS VTSIEERTRPNLSKTIHRIGGGLLDGPKTG RLLDVTTP/QTVLFQTISILLKGKSPT
1385	9436	C	2344	166	312

1386	9437	B	2345	355	487	MLGLRSGIPAPVRLQLAVLGNGLGNFG TEGPGLKGRMTVTGDPX*
1387	9438	A	2346	754	1035	GKVRTVKIKYWMLARSSGSSL*SOHGR LRQADHEVQEIKHHPGKHSANPISLLKI QKVS*LVSQAWWWVWPVPAIREVEAGE WCEPGRQSLQ
1388	9439	B	2347	80	432	MANGPRAFXCENFOAALALSRVGLHKN PEKEPYKSKYSARALLEEVKALLGPAPE DEDERPEAEDGPGAGGDHALGLPVAQRA VRLAVIEFHGLGVNHDTEELSAEELHV.K CLRURS*
1389	9440	A	2348	2	1060	HWLSTANVISDYYDKSSPTQDQTAETV*D TPELIQOGKGEIARCWKIKYCLTLMONA QLSMQDNI*ELLDLKQSELJALRKKELDE EESIRKKAQFGTGEELCDAISAIJEKVSY LRLPLDFEEARELFLLGQHYVFEAKEFFQI DGYYTVDHIEVVDQDHISALFKVLAFFETDM ERRCKMHKRRJAMLEPLTVLDLNQPYYL LVRNQIQFEIAHAYYDMMMDLKVAJADRL RDPDSHVVKKINNLNSALKYYQLFLDS LRDPNKVFPPEHIGEDVLRPAMLAKFRVA RLYGIITADPKKELENLATSLSHYKFIV DYCEKHPEAAQIEVELELSKEMVSILFP TKMURFRTKMALS
1390	9441	A	2349	11	2571	VCKRCKAEGRRSRLQTFFEESQAVEAAM ANVPWAECFKFAQAALALSRVELHKNP EKEPYKSKYSARANMEEVKAALLGPAPE DEDERPEAEDGPGAGGDHALGLPVAEVE PEGPVQAQNRLRLAVNRFHGLGVNHDTE ELSAEHEHLVVKCLRLRRYRRLSHDCISL.C IQAQNLLGIWSEREEIETAQAYLESEA LYNQYMKVEVGSPPLDPTERPLPPEERKLT NEQERSTRFSKVKYTHLYLAQVYQHLE CFETAHHYCHSTLKRROLEHNAYHPIEW AINAATLSQFYINKLCMEARHCLSAAN VFGQTGKISATEDTPESEGEVPELYHQR KGIEIARCWKINYLF*LLMQNAQLSMQDNI GELLDLKQSELJALRKKELDEEESIRK.K AVQFGTGEELCDAISAVIEEKVSYLRPLG FEEARELFLLGQHYVF/ERAKEFFQIDGY VTDHNEVVDQDHISALFKVLAFFETDMER RCWKMHRGLAMLEPLTVLDLNQPYYL VNRQIQFEIAHAYYDMMMDLKVAJADRL RDPDSHVVKKINNLNSALKYYQLFLDS LRDPNKVFPPEHIGEDVLRPAMLAKFRVA VARLWYKIIUTADPKERAKGKJWATSLSH YKFIVDYC/ERKHPVEAAQIEVELELSKE MPGRSETPSLKERKKDKIQTAKTTSA PPAQSALATTPQPVRMCRQLTRVISLGS KGKASFAGPDRPYEDPHIIVRLQLYHPQ RERSCVTSRRSCAKSPWTLSSRRWPHG SWEKSYLESDGOVITSSNNKFHCPEALF QPSFLGMESCGHYKTTFKSIVVKCDVDIHK DLYANTVLSGSTTMYPGIALQDAEGDH PGSQHEEDQDHCSF
1391	9442	A	235	1	1125	
1392	9443	A	2350	1	421	GTIVVMGLPKYFISLSTKFPLSFSLSADEL HIASFLWPRSKPFGVIQRCASQNLALP EVLKNPQGDPDKMLRFAESPRNLPGAVL/ GDIWTDGKGSVSLQEQVYHFLPLRPTPGS *ARASFLSCG*EEFRRHLGLTFSSTRE

1393	9444B	2351	211	1632	MSTELFSSTREECGSSGSPFSRSNQRKML NLLERDTSTVCPDPRTVPGKFLGDS ANLISLGGTPKCCCLDSNLSSGEITAQ LTTSADLDETGHLDSLQEVHLAGMN HDQHLMKCSPAQLCSTPNGLDRGRHK RDMACSSANKEENDDGNLNUVDSEMKYLG SPITVPKLDKPNLGEDQAEISDELME FSLKDQEAKVSRSGLYRSPSPMENLNRP RLKQVEKFKDNTIPDJKKKYFSGQGK LRKGCLCLKKTDSLCDITITQMLEEDSNQ GHILGDFSKVCALPTVSGKHQDLKYVNP ETVAALLSGFKFQGLIEKFYVVIDCRYPYEY LGHIIQGALNLYSQQEELPNFFLKKP1VPL DTQKRIIJVPHCEFSERGPRMCRCLREE DRSLNQYALTYPELYLKGGRYRDFPPE YMELEPCOSYCPM1HQDHKTELLRCRS OSKVOEGEROLRQEIQIALLVKDMSP
1394	9445A	2352	200	1525	IMASAHLSAFTCRSSSSGRSGSCKRGS WDSEALIRAWITLPLSLHAAADGFSFAGG RGIPSRSRWSWRAGQGQSSCLIMQTSSNC GNPSVLSEASGSWRGLPHCSCAELQDSL NFSYHPSGLSLSVFRPSSPGNSPKCEQFSQ VLRPEPPDPEKLPVPPAPPSPKRHCRLSV PVLPSRWQPVWRPAPSKLWTPKHRGS GGGGGPQVPHQSPPKRVSSSLRFLTSSQC LFSMCPSQSTLQSPFLQFPGPMSSSRPCA ASPGSGSWESDAEISLSPCPRORRFLSPS LGQASRFLPSARSPASSPELPLAT*G/L SATPFECSRQFCQLDARKTGVKRREED PRLRLPSLDLFDKMNQPKYPSGLCLOQETA REGSSISPPWFMACSPPLSASCSPTGSS QVLSSEKEEEGAVRWGRQALSKRTLC QRDPGDLNLJIEEN
1395	9446A	2353	2	280	
1396	9447A	2354	2	971	
1397	9448A	2355	604	876	SLHHKDFTGMLLQQFAHHLGEGIGFSLLIS PKSRQPLRFLPSVRQCGAAA/RCYRL APRVCSCGRRTAPAGD*GERAPRPR ARVFCPR
1398	9449A	2356	1	1042	DLFRRFHKPSSSIQRSSAAAAAATRAROH PPADSSVTMEDMNEYSNIEEFAGSKIN ASKNQDDGKMFIGGLSWDTSKKDITE YLSRFGEVVDCTIKTDPVTRGSFQFGFV LFKDKAASVDRVLELKEHHKLDDGKLIDPKR AKALKGKEPPKKVVFVGQLSPDTSEBQK EYFGAFGERENIEFSMDIKTNERR/GFCFI TYTDDEPVVKLLESTYH0IGSKCEIKV AQPKEVYRQQQQQQKGGRGAAAAGGRG GTRGRGRGQQQNWNQGFNNNNYYDQGY GNYNSAYGDDQNYSGY/GYD/Y/TGYN YGNMMEYTRGYGQTYQWPQGSTLMG KVASRGGGQSTQNNYPAHT
1399	9450A	2357	586	1970	QFETPLRFLSLLJLFSQARVPSRVSASLLA GRAAMEVPPRLSHVPPPLPPSAPATLASR SLSHWRPRPPLPQJALPLPSLAPSSARQG ARRAQRHVTAAQQPSRLAGGAIAKGGRR RRPDLFRRHKSSSIQRSSAAAAAATRTA RQHIPPADSSVTMEDMNEYSNIEEFAGS KINASKNQDDGKMFIGGLSWDTSKKD LTYEILSRFGEVVDCTIKTDPVTRGSF GFVLFKDAASVDKVLGT*KGHLKDGGKL IDPKRAKALKGKEPSPKRFLWGSLSPDTS IEEIQKEYFGAFGEIENIELPMDITKTNER RGFCFITVYTDDEPVVKLLESTRYH0IGSG KCEIKGCTPKRYLGQQQQPPKGCX/RG AAAAGRVTGRGRGSVQGQNWTQGFNN YYDQGYGNYNSAYGGDQNYSGYGGYD YIGNYGNYGGYGGYADYSQQSTY KASRGGGNHQNNYQPY

1400	9451	A	2358	592	608	WLRWATIYKAGQQLAEAQNPYSFREQQ PFLRLDHLRTAGAEQCNCAAAVWVRLR* RMNGFVLLTGAUASFIMVAHLSHQCSQG PAAKVPKWEVYVPCATEPLNNGHHPST C1QAKPHPRNTVGVK*PSPLFFPSLLGG VYHPAV*ASWPWAWPWICWTEFLYAIY GLLGENPSKRSRSPRGWSNALLAFGWG ITVCSGFPSSILVWVKSGLGQVEPKCCH LKLK
1401	9452	A	2359	857	1343	SFRSSFGGITFKIVSFGIMAQTHAMGOFF ERNSVP*LTOGEIENLNRPVVKL/ESITNN LL**KAPGLDGFTDD*SNI*EJNL*PRNISL KFFPLRKSKSYQFSTIASKIEAKGTHPN* L*ETSITLILKSDKDMTRKGKLQLSNNIDA KILNKILANQMQ
1402	9453	A	236	426	2173	MRAQTHNRAVDIALGTAGAHLEDPGAQ OGQDRCSWQVCRSARRRRRREAAGRR AARRAQHPCCREPSGNQSLSAHLHTQAT KGPASSLHEHLWPKIARSARLPGNSPL FSAPCMSGAGAPSLLAALLLSSGDGAV RCDTPANCYTDLLGTWVPGVQGSSGSO RDVNCNSVMMGPQEKVWVYVQQLDТАV DDLGNFQGHFTIIYNQGFEIVLNDYKWF AFKVKKEEGSKVTTYCNETMTGWVHD VLGRNWVFFTGKVKGTASENVVYNTA HLKNSQEKSRSRLYKDYDHNFVKAINAjq KSWTATTYMEYETLTLGDMIRSSGGHS RKIPRPKPAPLTAEIQQKILHLPLTSWDWR NVHGINFVSPVNRNQASCSCSYFASMG MLEARIRLTTNSQTPILSPQEVVSCSQY AQGCEGGFPYLIAGKQADQFGLVEEACF PYTGTDSPCKMKEDCFRYYSSYHYVG GFTGCGNEALMKLLELVHHPGMAVAFEV YDFLHYKKGIYHTTGLRDPFNPFLETN HAVLLVGYTDSASGMDYIVIWKNSWG TGWGNGYFRIRRGTDCAEISIAVAAATP IPKL
1403	9454	A	2360	84	326	DKAYQCSDCDK/ELHSVTLVSR*SVLSM HQSHIHWKKKLICFLK/CHKAQSF*SAII KQRHVAQII*CCIWESLQPENVL
1404	9455	A	2361	635	1170	RLFKC1GLLTTFPPDSSHPOLPGEPSGSFE KSRCPGWPBPAQPHQSRWAIGPACSSY SGVLQG*EPQI*SLQHGRGGGORTGGLE KETRGTGSRISDTALGG/EAQPCPCQCOLPH LPGPPAAHIDAGPYIP/PKGPGGSGYLPH HGSAKLGSNQGAMKQAGRTGSGSQQ SAEFHKAAALWT
1405	9456	A	2365	2	333	EPVCATWKNRTPETRQCRPAEKQRASA TQHQEGRQPGWKPRRSSDPHPRPGFSS THDVSD*PKYTNCRAKEEAGSLPTGT GIGGSKPSNRLRSTTHITPGTVFNT
1406	9457	A	2366	208	491	KQSQVWCVLWSERGGLGLDPPNPSACG GDRLS/RTSAVPVP*S*NSAHAGPGRP GKPGQWG*TVTSGRSVAGKPGVPSNRR CFLPHWPWLNDN
1407	9458	A	2367	2	1010	POPAQCPGKELRTVINGSQMLLVLWL SWLPHWGALSLAEASRA/SPCPGPSELQ LRKTSKIPKSLRKRYEDELLNPNGCPNQS WEDSNTDLVPPAPAVRILTPUVEVRGSGG HLHLRISRAALPEGLPEASRLRHALFRLS PTASRSWDVTPLRQLSLARPHGPALH LRLSPPPSSQSDDQLLAESSSARQLELHL RPQAARGRRARA/NSNGDHCPPLGPGRCC RLHTVRASLEDILGWAIWWVLSPLREVQ VT/ILCAIGACPSQPGFRQKMHQAESKTN PAPALKAPNTIVPKRPACLVPRQLQIPWVLY HSKRPDTGVCFCQDL/SD*LVKPKTCHLH Y

1408	9459	A	2368	68	430	HVLTAHPPPHIRLGPGPQGRSGMGRELY GPTVCLSSLRPLAASPGRPVGVLGPQQV QVNNGGCWCPRGYEGTQAPQPPS*VG DPGEPNPQAPGAQSSTTPKAHIPPQTQEA GRRWEGKWF
1409	9460	A	2369	694	872	VCPGTGGE*GLWGLQGLPLKETPLKPM DAFTGSLKRFDFDWDVGSSVSNSDDEI SSSDSADSCDSLNPPITASFTPSILRKQK QLRRKNCVRFDQVTVVYFARRQGFTSVPS QGGSSLGMQRJINNSVRSYTLCEFAQEQ EVNHRREILREHLKEEKLHAKMKLTKN GTVESVEADGLTLDDDSDEDDIVENVEV DDYFFLOPSAWKRRRALLRASGVHRIDA EEKQELRAIRLSREECGCDCLYCDPEA CACSQAGIKCQVSUDRMSPCCGCSRDCG GNMAGRIEFNPVVRTHYLHAIMKLES KRQGAAQQPQ*GALPDCQLOPDRSTGP *DPLTWHLIPIAWLQAHASGSQYSRQSQP HSSDRRRMARSSCSSASIRCCTPEALRSA RLRLVGRWLQEEVIIHLHIFHINPI
1410	9461	A	237	3	463	GTRFLHFSFLSLKHGGCGSLLAALLL PGDGA\VRCDTPANCTYLDLGLTWVFQ VGSS\GQRDVNCVSMGPQKRKK*VV LQKLD\TA\YDDLGNSG\HFVIIYNGQF VLDYKWF\AFFKDVTDFISHLFMQLGT VGIYDLPHLRNKAGY
1411	9462	A	2370	2	295	
1412	9463	A	2371	2	345	
1413	9464	A	2372	156	1437	GIETRRPWGRPYVVA\LLVVMDALVEDD ICILNHEKAHHRDVT\TPVSIIL\PGDSEVAI SHFALVTPYEDIKRKLKDSRKRTSFLKK RIFFLEEKLJ\GSDLKKQV\*GRE\VNK AYAHAYREV\CDRDNLKS\KLDMNKDN SESSLKVLNEQLQSK\VE\LLQ\RT\TEVETQ QVMRNLNP\PSIQTGEV\GKVG\GDL\KJH GFGNQELELMRKECS\KIELQ\KAQ\QTD PYQEDNLK\SRDLQ\LS\ISS\ND\NQHAY\W ELEKRC\CLN\HLV\TTS\YK\LELLRKT\*KT STA\KKA\CA\VP\VG\CV\DE\LR\G\DT\K\HL DGF\LL\AT\Y\RH\PP\LP\NG\K\AL\CH\T\SSP LPGDVKV\LE\KAI\Q\SW\TD\N\ER\N\SP\NDG Y\DA\RE\H\SS\Y\Q\N\SL\ED\N\SW\G\FO\SP\PK /\SQ\SET\A\GET\K\T\K\T\PL\PL\N\PL\H\Y\LDQ /HN\Q\N\LY\K\N
1414	9465	A	2373	28	405	FLYDPAPPFLSIVPKELKVES\IDT\T\LI\I AAL\LI\GKRWK\*PKY\PL\T\DE\W\N\K\W\Y INT\I\Y\Y\SH\LR\K\DL\TH\Y\TT\W\N\RE\DL\I LSE\I\Q\SO\K\INT\VE\ST\Y\MR\Y\K\Y\I\N\S\*IS\G TS\Y\K\SH\RV
1415	9466	A	2374	1414	1607	DRVSLWPLR\LECS\GA\SA\H\CN\LC\FS\GLS IN\PT\SA\SR\VA\G\T\G\AC\H\T\LL\I\*FLFV\Y VV\VF\ET\ES\HL\W\LP\LECS\GA\SA\H\CN\LC FS\GLS\N\PT\SA\SR\VA\G\T\G\AC\H\T\LL\I\Y FL\VE\MG\FH\HG\K
1416	9467	A	2375	558	985	KKDP\W\AL\Y\SL\Y\Y\K\FL\H\FS\SS\AK\N\P DG\CF\Q\VL\NG\FT\K\FF\CE\Q\Y\CK\LL\K\Y FY\RL\FA\LL\W\LC\LS\G\FL\K\FF\Y\SE\I\ME\LV LAAA\G\LL\FC\G\N\I\Y\Y\DT\H\SL\H\K\LS\PE EV\Y\LA\AI\SL\Y\LD\I\N\FL\H\LL\RF\LE\AV\N\K
1417	9468	A	2376	664	937	VLLI\FS\N\I\N\I\FL\*SL\PS\FFF\I\G\O\N\G\W\Y LAA\AG\Y\LL\FC\G\D\SS\MD\T\H\SL\G\N\W\Y PE\Y\Y\VL\A\I\SL\Y\LD\I\N\FL\H\LL\RF\LE\AV\N\K

1418	9469	A	2377	1	739	DPTPTVTPRSSLKNODSTNGSSVASAATVHIE WAFLRKVYVSIISLQLVLLTIVTSPVFLNLY ESVRTFVHESLALILFLALGSGLGNFLALT LNRHKYPLNLVYLLFGFTLLEALTVAVV VTFYDVYIILQAFILITIVFFFWDPCVYS YQSKKDFSKFGAGLFALLVG•LCLSIGF LKVFFFYSEIMELALAAAGAPPVDFII WDTHSLMHKLASPEYVLAASILYLDII NLFJLHLLRFPGSQLNKK
1419	9470	A	2378	272	1668	AMSGOSVTFRDVAIDFSQEEWKWLQPA QRDVYRCVVMLENYGHVLVSLAGLSISKP DVVSLSLEQGKEPW/WGKREVKRDLFS VSESSGENOGLPHQKNVYDGLHPSI*IM ERNSSVKAPVYSSFKGKGWCKDHTEML QENOGCIRKVTVSHQEALAQHNMNISTVE RPGYCEHECGKTFGRFRSLVLIHORHTHGE KPKHECKDCNKTFSYLSFLIEHQHRTHTG EKPYECTECGKAFASRASNLTTRHQRIHIGK KQYICRKCGKAFFSSGSELEIRHQHTHGEK PYECIECGKAFAFRFSPLTRHQSIHHTKTP YECNECRKAFAFRCHSFILKHQRHAGEK YECDECCKVFTVWHASLJQHTKSHTGEKP YACAE*NKAFASSRSFSLILHQRTVHTGE YVCKVCNKSFSWSSNLAHKRQRTHTLDN PYEENSFNYHSFLTEHQ
1420	9471	A	2379	1322	1644	HEFLFLGIRGKMFVGWTNE*EEKAGILN GSLR*SQHFQKPRWVDH/LRSQVRDQSVA GQHGGKTSLSLQKNTKTSWAWWRAPVVP AT*EAEVGGWLEPRGGGCSEAVSGAF
1421	9472	A	238	12	362	DRVSLSPRLECSNAPIAHCNPLCP/GFK QFSCLSLSPSSWG*RCIPLPRLANFLV/SLVE IGFHVVHQAGLKLLTSCDPPRTSA/FPKCW DYRHEPQ/WPDL*LTSF*GYRYEDSFDFL PKVPI
1422	9473	A	2380	319	724	EASLDLAPNISPPKTSCLPTGSCCSFTQT WMPSQKVFIHGPQECPGPWDWALGTDLTA LPFKARNMNPNLDTAGLPSIALRRTVNR RSPGQELSCLPDSCLSQ/PPQPC*GSLLP LEYKCTPKEARLK*KRLSFLV
1423	9474	A	2381	38	704	SSEEQQRSFSWWHQDDEPAVTWKWLPK VPPRWFSSHFPLDSDPHFLLQTAVTPPL QISAAPPKPKLPPPTSPLAFFFSSLLTDLPLV HPOGFSAGATAUNKAOSHNRNTRALQSHS SPEGEKEEP*TPYPPPELEYIPURRKRGKPNPHG KLVTGLLGHSAFPCOGYSLFLFHPSPKRG GTRDRVEGRLKARQNIRVCSSNN/AGEYE EARFRKGSSQSGVPVPDVGSVQT
1424	9475	A	2382	107	449	
1425	9476	A	2383	68	422	
1426	9477	A	2384	54	859	LRRGRSRETNEEPPPTVQVQGPQPKREE KQKTMKAFVIRPATADCSDLRLIKE AKYEYMEEBQVILTEKDILLEDGFGEHPFY HCLVAEVPKEHWTPEGYSL*LRHVHGPS VYMDGRGGN*KILYTIK*MINNEDTAL VGFHVHLYPMNPWDWQSYLLEDFTSV MSGYVKGLGIGSEILRNRLSPGQ*RCRCS SKHFLVAEWQ*THPITFYKRGASDLS Q*RGWETCSKIGQGSTWLKIGQPEGVR ECLLGLWTTSHYE
1427	9478	A	2387	112	861	NPGAAKMPAYHSSLMDPDTKLJGNM/A HLLPRSQFKGPAPKRDRTRIPDIVDEAIFL PSGPNVFFFNYEIKNEADRTLITYIYISE CLKQLOKICQFPKAQGEKEMYTLGIPILN FPIPEGFGSFHVNANLCPNPANKQEDEN VMAVYLPTSLRPRTLGLKTL*EKFGPS RMDKPKQSGWTVL*RDSEFMNKSLSAG PWTIEREGAAHRLPRPGPAAFFQQDVT QSFCLYFSKVFIQKRRRACLYLNNS

1428	9479A	2389	1	395	AKAKMADVLDLH <sup>E</sup> AGGEDFAMDEDOD E <sup>I</sup> JKLKEAKKRKGRGFG/S <sup>R</sup> *W <sup>G</sup> KW GRVA**GRSYFWSPHPPHRNNGRKEEF SVISCMSLJEEGSRARMREDYD <sup>S</sup> VEIJDG DEPGPQRSVEGW <sup>I</sup> LFVTGVHEEA
1429	9480A	239	3	153	
1430	9481A	2390	146	831	CLSGTDEISIEGEMADVL <sup>D</sup> LH <sup>E</sup> AGGEDF AMDEDODGDESIHJKLKEAKKRKGRGFGS E <sup>E</sup> GSRAKRM*DYDSVEQGDVPG <sup>G</sup> QR <sup>S</sup> VEGW <sup>I</sup> LFVTGSP*RK <sup>P</sup> PEEDIHDK <sup>P</sup> ARIM GEIKNISSTFD <sup>R</sup> RT <sup>T</sup> Y <sup>V</sup> ILKGYT <sup>I</sup> LSLN <sup>I</sup> ET YKEAQAA <sup>M</sup> EGLNGQ <sup>D</sup> LMGQ <sup>P</sup> ISV <sup>D</sup> WC FVRGP <sup>K</sup> G <sup>R</sup> RRGRRRSR <sup>S</sup> SPDR <sup>R</sup> PS <sup>T</sup> G <sup>L</sup> LL <sup>S</sup> RC <sup>S</sup> LQ <sup>D</sup> SIWT <sup>M</sup> ALGQ <sup>I</sup> GL <sup>G</sup> WEL CCVYI
1431	9482A	2391	2	442	FYVILS <sup>V</sup> RELYLCHL <sup>H</sup> PF <sup>L</sup> CAGV <sup>Y</sup> MT <sup>I</sup> N <sup>S</sup> AMKVFL <sup>I</sup> WL <sup>V</sup> IVK <sup>K</sup> IT <sup>V</sup> LE <sup>F</sup> KKL <sup>S</sup> WP <sup>G</sup> AV VWF*G <sup>I</sup> LYL <sup>Y</sup> TH <sup>H</sup> *T <sup>L</sup> ANTH <sup>I</sup> *QVN <sup>V</sup> C <sup>Y</sup> YL QRNK*FHRFCIN <sup>I</sup> K <sup>S</sup> WL <sup>G</sup> AEP <sup>H</sup> ACN <sup>P</sup> ST <sup>L</sup> GG*HS*V <sup>T</sup> *A <sup>Q</sup> K <sup>F</sup> ET <sup>S</sup> WL <sup>G</sup> N <sup>I</sup> VR <sup>P</sup> CL <sup>L</sup> Y <sup>K</sup> Y <sup>K</sup> KN
1432	9483A	2392	2	425	RANPPSISPSAOD <sup>S</sup> RV <sup>T</sup> V <sup>P</sup> GE <sup>G</sup> FG <sup>G</sup> SP <sup>/</sup> Q <sup>*</sup> PSR <sup>P</sup> V <sup>S</sup> G <sup>P</sup> A/G <sup>S</sup> GG <sup>L</sup> R <sup>G</sup> GS <sup>S</sup> AP <sup>T</sup> L <sup>G</sup> E APPSAIG <sup>P</sup> TP <sup>A</sup> LQ <sup>C</sup> CD <sup>P</sup> G <sup>A</sup> G <sup>P</sup> /G <sup>T</sup> AR <sup>P</sup> O OTASAAP <sup>A</sup> PL <sup>P</sup> PR <sup>R</sup> GA <sup>G</sup> AP <sup>P</sup> /Q <sup>A</sup> REGG POGEEERPPSGREK <sup>V</sup> SC*KRQTGP <sup>Q</sup> QR <sup>R</sup> ADK
1433	9484A	2393	2	662	ACTAA <sup>D</sup> LIAGT <sup>T</sup> ISEA <sup>G</sup> PHMENQP/GEVA GPAGGPTPSWAPR <sup>I</sup> LA <sup>P</sup> PPWRAAAGRDP AT/GQEDSQ*FTPGC <sup>S</sup> SWPPWTQ <sup>L</sup> SP <sup>S</sup> A ASPIHT <sup>P</sup> PIQ <sup>G</sup> FHSQ <sup>L</sup> LS <sup>S</sup> *RSPGTEEP*E ANKLPPWTGHREPEPH <sup>F</sup> PG <sup>L</sup> PG <sup>H</sup> PCAAGS IGHW <sup>H</sup> LL <sup>L</sup> CL <sup>L</sup> PL <sup>A</sup> TL <sup>H</sup> GER <sup>R</sup> QH <sup>L</sup> H <sup>P</sup> GQR SGCGV <sup>V</sup> QGR <sup>T</sup> PP <sup>G</sup> S <sup>A</sup> Q <sup>A</sup> QDLP <sup>A</sup> APSSILQ <sup>N</sup> L <sup>S</sup> TQLCSA <sup>A</sup> PR <sup>S</sup> MP <sup>A</sup> SR <sup>N</sup> RM
1434	9485A	2394	115	187	
1435	9486A	2395	93	584	KHSASAAQ <sup>A</sup> LP <sup>G</sup> TL <sup>G</sup> ACTGSGGL <sup>R</sup> GGSS APATPL <sup>G</sup> EAP <sup>S</sup> PSA <sup>G</sup> PT <sup>A</sup> LQ <sup>C</sup> CD <sup>P</sup> G <sup>A</sup> G PVLP <sup>G</sup> OV <sup>K</sup> LP <sup>Q</sup> Q <sup>P</sup> PA <sup>L</sup> P <sup>R</sup> RGAGA <sup>G</sup> APP PEIPGGSF <sup>O</sup> GY <sup>V</sup> WE <sup>G</sup> GA <sup>O</sup> PT <sup>G</sup> LL <sup>P</sup> QA <sup>R</sup> PL <sup>R</sup> PPP <sup>F</sup> AL <sup>G</sup> GS <sup>C</sup> SA <sup>E</sup> EG <sup>G</sup> *AT <sup>G</sup> TR <sup>H</sup> K <sup>G</sup> GS CS <sup>G</sup> VL <sup>G</sup> WG <sup>P</sup> GR <sup>A</sup> KG <sup>H</sup> PH <sup>P</sup> HL <sup>L</sup>
1436	9487A	2396	46	438	LQRKVGDWL <sup>G</sup> APPWG <sup>V</sup> V <sup>G</sup> SH <sup>R</sup> CR <sup>A</sup> T <sup>A</sup> RP <sup>G</sup> T <sup>A</sup> SA <sup>A</sup> AP <sup>A</sup> PL <sup>P</sup> PR <sup>R</sup> GA <sup>G</sup> APP <sup>L</sup> V <sup>P</sup> APP <sup>C</sup> CA <sup>Q</sup> APP <sup>S</sup> SQ <sup>S</sup> Q <sup>G</sup> R <sup>N</sup> O**A <sup>A</sup> SG <sup>P</sup> W <sup>R</sup> PP <sup>R</sup> /G <sup>R</sup> EV <sup>G</sup> T <sup>G</sup> GE <sup>E</sup> ER <sup>P</sup> AS <sup>G</sup> REKD <sup>S</sup> C <sup>E</sup> RO <sup>T</sup> GP <sup>G</sup> Q <sup>R</sup> RAV <sup>K</sup> MT <sup>T</sup> TR
1437	9488A	2397	455	1241	AREL <sup>R</sup> AGGF <sup>V</sup> V <sup>V</sup> PH <sup>R</sup> GLE <sup>M</sup> PT <sup>E</sup> LA <sup>E</sup> AG VSGV <sup>G</sup> Q <sup>L</sup> HP <sup>H</sup> /H <sup>L</sup> GE <sup>A</sup> PS <sup>S</sup> A <sup>W</sup> PD <sup>T</sup> Q <sup>R</sup> CS <sup>V</sup> IP <sup>V</sup> Q <sup>G</sup> PV <sup>L</sup> P <sup>Q</sup> V <sup>K</sup> L <sup>P</sup> Q <sup>Q</sup> PP <sup>A</sup> L <sup>P</sup> RRGA <sup>G</sup> APP <sup>L</sup> R <sup>D</sup> LAR <sup>V</sup> APP <sup>C</sup> QA <sup>R</sup> APP <sup>S</sup> SSQ <sup>G</sup> R <sup>N</sup> O**A <sup>A</sup> SG <sup>P</sup> W <sup>R</sup> PR <sup>Q</sup> AEKESNC GEE <sup>E</sup> ER <sup>P</sup> AS <sup>G</sup> REKD <sup>S</sup> *ER <sup>Q</sup> NG <sup>R</sup> SA <sup>A</sup> GR QAKES <sup>F</sup> QT <sup>R</sup> PP <sup>D</sup> GE <sup>P</sup> ACE <sup>V</sup> AG <sup>P</sup> AG <sup>P</sup> PT <sup>P</sup> SW <sup>A</sup> PR <sup>S</sup> LA <sup>P</sup> PP <sup>W</sup> R <sup>A</sup> AA <sup>A</sup> RD <sup>P</sup> AT <sup>G</sup> R <sup>T</sup> V <sup>T</sup> SD <sup>H</sup> PR <sup>A</sup> H <sup>H</sup> GL <sup>P</sup> Q <sup>H</sup> S <sup>Y</sup> LLQL <sup>Q</sup> DI <sup>L</sup> SI <sup>H</sup> S <sup>I</sup> Q <sup>G</sup> FH <sup>S</sup> Q <sup>L</sup> LS
1438	9489A	2398	2	328	PLFS <sup>D</sup> NG <sup>K</sup> KR <sup>G</sup> AL <sup>D</sup> GL <sup>K</sup> L <sup>H</sup> ED <sup>T</sup> N <sup>I</sup> ASS <sup>L</sup> TIV <sup>V</sup> KEGAN <sup>K</sup> EV <sup>L</sup> GL <sup>V</sup> SY <sup>R</sup> V <sup>K</sup> VL <sup>V</sup> VS <sup>R</sup> GG <sup>A</sup> PE <sup>T</sup> TD <sup>D</sup> V <sup>V</sup> P <sup>D</sup> IN <sup>I</sup> IE <sup>D</sup> IN <sup>I</sup> Y <sup>Y</sup> AT <sup>D</sup> DDIV <sup>V</sup> FED <sup>A</sup> FL <sup>R</sup> L <sup>K</sup> GM <sup>K</sup> DD <sup>D</sup> Y <sup>D</sup> DQ <sup>S</sup> TR <sup>P</sup>
1439	9490A	2399	2	417	EIR <sup>A</sup> FC <sup>A</sup> CSLE* <sup>K</sup> SH <sup>K</sup> RS <sup>V</sup> RL <sup>V</sup> IR <sup>K</sup> V <sup>Q</sup> A <sup>E</sup> PK <sup>G</sup> PP <sup>S</sup> AE <sup>T</sup> TR <sup>I</sup> FL <sup>M</sup> SD <sup>R</sup> SL <sup>H</sup> LE <sup>A</sup> LS <sup>E</sup> /EV <sup>Y</sup> O <sup>A</sup> DI <sup>C</sup> LF <sup>S</sup> TA <sup>Q</sup> Y <sup>K</sup> CP <sup>V</sup> A <sup>Q</sup> LE <sup>S</sup> QD <sup>D</sup> QV <sup>S</sup> S <sup>S</sup> TF <sup>C</sup> K <sup>V</sup> Y <sup>T</sup> II <sup>I</sup> PL <sup>L</sup> SD <sup>N</sup> RE <sup>K</sup> R <sup>G</sup> L <sup>A</sup> LD <sup>G</sup> KL <sup>H</sup> ED <sup>T</sup> N <sup>I</sup> AF <sup>S</sup> TI <sup>G</sup> KE <sup>G</sup> GH

1440	9491	A	24	497	752	DGVLLLPRLECSNAILAHRNRLP/GRF RFSCLTLLSPWDYRHLPPRLAIFVVFLVV VGFHVGVAGLELLTSR*SARPRPPKIA
1441	9492	A	240	3	423	GTHASARMAMVAMPRTLILLSGALAL TQTWAGSHSMRYFYTSGSRPGRGEPRFI AVGVYDDTQFVRFDSDAASQRMEPRAP W10EPEYWDQETRNVKAQSQTDRVD LGLRGYNNQSEDGSHTIQIMYGCVDGP DGR
1442	9493	A	2400	188	340	GGALLKDPPLGGPNLPGGGDKFFSFWG AF*NPPGDFWEGTFFLGGGILGP
1443	9494	A	2401	117	457	
1444	9495	A	2402	39	447	
1445	9496	A	2403	3	1359	FPGRFRGGAGILAAGEAEASEPRTERA AGARTMGEGKPGTRVFKSSPCKLTVY LGKDRFVDHLDKVDPVWDGVVLVDPDV TMKDRKVFVTLSPCAFRYGREDLDDVL GLSFRKDLFIATYQAFPPVNPNNPRPPTL QDRLRKLQHAAHPPFTIPQNLPCSVTL QPGPDTGKACGVDFEIRACAKSLEEK GHGKTSVRLVIRKVFQAFPEKPGPQPSAE TTRHFLMSDRSLHLEASLADKELYHHGEP LNVKCSTFTNNSTKTVQGRFKVSC*GQ YADIWPLSGTAQYKCPVAOLEQDDQVS PSSTFCVKYTITPLLSDNREKPCLALDG KLKHEDTNLVSSSTVKEGANKEVGLILV SYRVEVKLVLSVSRGGDVSVELPFVLMHP KPHDHSILPRPQSAAPETDVPVDTNLIEI DTNYATDDDIVFEDFARLRLKGMDKDD YDQQLC
1446	9497	C	2406	933	1070	MKRKNKNILYYGTNKLYNNTNNNNFDI LVSSLGLSERSFYRYL*
1447	9498	A	2407	138	1166	VVAMAQVRLRGTVTDFPGFDERADAETL RKAMKGLGTDEESILUTLLTSRSNAQWRQ EISCS/AFKTLFGDRDLDDLKSEL/TGKF EKLIVALMKPSVLL*MLIJEKHALKGA GTNEKVLTTEIASRTPEELRA'AIKVYEE EVYQNSLED*RWLGDPSGYYPAGCWLVI LLQANRDPDAGIDEA/QVEQDAQALFVQ AGELKWTGDEEKFITFGTURSWSSFQK VFDKYMITSRISKLRETIDRETSQGFRSQ LLLGCCGILFRRYTSFTLQETHYAMKEA GTDDHTLIRVMVMSRSIDLVYIPGREFR KNFCHPPYSMIKGRYIWGTIKKALLL CGEDD
1448	9499	A	2408	1	498	
1449	9500	C	2409	14	394	
1450	9501	B	241	1	540	MPVNKHKRHDITIAESLITPNVTTDSVKD CIKELGNRLFWTOGCSHVVATVAPPTA PRGLRVRSAVRPLPLGGWAAAMEGEPP PVEERRRLQEELENEFVESGCRILEEVETAS LGWDLDSLDPGEEEAELHQIRQCESWE FASSPCALKLDTSDWDSTNSRIKGCHQ EVVTGNSCGH*
1451	9502	A	2410	2	353	
1452	9503	A	2411	1	349	
1453	9504	A	2412	123	195	SWKPSFSAN*HSNRKPNTACSHS
1454	9505	A	2413	240	743	
1455	9506	A	2414	284	672	GOWEGLTDTSYRRAPIGRPVLQRKEQT VIFAVLQPLLVIPR*TAGVVDLQQT/GRP AEERPVRRKTKKQNATTSKSTKGPIQK PHSNVIRFKDERDMDAEAGNHHSQQTNT GTENQTTCHSYVGVEQ

1456	9507 A	2415	579	1383	VGSCAFYLAWSVFLAPRPFHLQLGAD EVARSWDFLRSPEEVFTNNMDRPNHTHIN NNMNDKIKKEELKRSRSLALFSQFGHVV DIVALKTMMRQQAFAVIFKELGSSNTA LRQLQGPPFYGKPMRQJQVYAKTGSDINS KMRGTFADKEKKKEKKKARTVWDQTAT TTNKKPVGQGTPNSAIPQGNNSTQIPQWV DYP SKLNFYSLNKL TQRETNEMMLSLHA V*ISSTWPSEVPSGYGRHDIAFWEFEN VDOQAGAAR DALQGF
1457	9508 A	2416	1186	1451	DLKLVLHEKPKLARRSGSHL*PR/HFGRL RWKDCIKPGVQDHRSQYRESPSLQNIKK KIIAWWCMPIVPTTQAVKVGGSLELK RLRLQ
1458	9509 A	2417	1	412	
1459	9510 A	2418	298	532	MGSWSLPGRTLWKEVFRFLSKERTN GSNFFSFPGSQHTREERSQECLSLPVLPS YLATRLSLPDSCPLGRKRAH*QRHSEI* L MGFEPGWPGKL*GWIELAFLLGCLHLTL PLPCPTPLPKSTKSGCFSLSIACFNKQF AVTK
1460	9511 A	2419	5	977	VRGGLAAGRGRGSAGAAPVVVAAMILG AWAVEGTAVALLRLLLLIPPAIRGPGL GVAGVAGAAAGAGLPESVIWAVNAGGEA HVDVHGIIHFRKCIPL*GRVGRASDYGMK LPILRSNPEDQSCYQTEURSNEEITGYESP IQREGGLTCWSLKFABEVYFAQSQSKV DVRNLGHVVVKDLIDFDRVGHSTAHEDEI IPMSIRKGKLSVQGEVISTLYTGNNSME/F VKGYL*IPKVCALYIMAGITVDDVPKL QPHPGV*ERKKGEEEEEEBYDEGSIPKKNR PIKNGQSGPRHNPPT*ASDNSSLMFPI VIAFGVFIPTLFCLCLR
1461	9512 B	242	232	387	MEGEPPPVVEERRRLQEEELNEFVESGCR LEVTASLGWDLDSLDPGEEEAAE*
1462	9513 A	2420	1	453	RNSEKEVEKRKVALQEAKLAKGLNPD GTPALSTLQGFSASKPSSPREVKAEKS PISINAKTVKKEPEDRDRQASKSPYNGYN NRRSRSGTYSSRSRSRSRSHSESPRRRHHN HSSPHLKAHKTRDDLQSSNRJGHKRKK SRSSRSQSKSR
1463	9514 A	2421	19	434	QRGNYSFIVAMACINLASKIEAPRIR DVINVFHHLRQLRGKURTSYYIOSLDV WYIEMKLSSWQQTSPSPILLDQNYINTKN QVKAERVLKELGCVHVKHPHKJIVM YLQVLECERNQTLVQTAWVWDHGTT
1464	9515 A	2422	171	437	TSNFYLSYNNRRSRGTYSSRSRSRS HSESPRRIHHNGSPHLKAHKTRDDLQSS NRJGHKRKKSRSRQSKSRDHSDAO*KH RLE

1465	9516	A	2423	21	1555	FPGRFRFLWACVRLAKTMASGPHTA AAAAAASSAAPSAGSSGGTTTTTTT GIGLIGDRLYSEVSLTIDHSLIPEERLSPITP SMQDGDLPLSETDLRILGCEIQAAGILL RLPQVAMATGQVLFHRFFYSKSFVKHS FEVVAAMACINLASKIEAEPRIIRDVINVF HHILQLRKRTPLSPLILDQNTINTKHQVI KAERRVLKELGFCVHVKHPHKIIJVMVQ VLECERNQTLVQTAWNYMNDLSLRTNVF VRFQPEIACACIYLAARALQIPLPRTPH WFLFLFGTTTEEOEICETI.RLYTRKPN YELULEKEVEKRKVALQEAKLAKAGLNP DGTPLALST/LGVGFSAPSKPFHJQENVKA GRKSPFHLMWKDSSKKEPGG*D/RQA FPKALYNGVKEKDS/RRRSRNSRSASRS RSRTRRSRSRSHTPRHYNNRRSRSRGTY SSPRSRSPSHSESPRRHINHGSPHLKAK HTRDLKSSNRHGHKRRKKSRSRSQSKSR DHISDAAKKHRHGERHGRHRDRURERSRSF EEVP*KARIHGWPVRSRGTWARAQGADL SSSLWSPAIQFLGFGPYQCDGGMGLNPKT IKRKTGLGDFLETPRPS
1466	9517	A	2424	1	1566	
1467	9518	A	2425	328	889	GLRTPAAYLYCGTVRTAGVAAASRYQG DNYVKNNLDDSIDERLQKEFSPFGT* AKGMMEGGHSGKGFGF/ICFSPEEASK AGTELNGRTVATKPSYVVALAQPKEECQ AHLSNQHMORMASVRAPVNVMNPYK PAPPSSGTYLMTGIPETQRNPPRPGAVGHP NPSTLGGQEGKNTGSQDRDHPG
1468	9519	A	2426	1	2262	
1469	9520	A	2427	365	2419	FSIPVDFCPSSALAPRSPPPGSGPQPRHSL SSHIGVVAACGPAGSRAEMNPSAPSYPM ASLYVVDLHPDVTTEAMLYEKPSAGPIL SIRVCRDMITRSSLGYYAVVNQFQIPADAE RALDTMNFDVKGPVIRIMWSQRDPSSLR KSGVGNIKVNLDKSIDNKALEYTFSAGF NILSCKVVCDENGSYGVFHFETQEAA ERAIEKMGNGMLLNDRKVFVGRFKSRKE RREALGARAKEFTNVYIKNGFEDMDDE RLKDLFGKFGPALSVKVMTIDESGSKSGF GIVFSFERHEDAQKAVIDEMNGKELNGKQ IVYGRAOKKVERQTLELRKFQFMQKQDRI TRYQGVNLVYVKNLDDGIDDERLRFKEFSP FGTITSAKVMMEGGRSKGFGFVCFSSPE EATKAVENTMNGRIVATKPLYVALAQRK EERQAHLTNQYMQRMASVRAPNPVIN PYQFAPPSSGYFMAAIPQD*DR/AAYYPPS QIAQLRSPRWTQGARTIHPFQNMPGA IRPAAPRPPFTMRPQASSQVPRVMSTOR VANTSTOTMGPRPAAAATTAATPAVRTV PKQKYAAGVRNPQOHLNAQPOVVTMQQ PAVHVQGOEPLTASMLASAPRQEQQKQM LGERLFPLIQAMHPTLAGKITGMILLEIDN SELLHMLESPESLRSKVDEAVAVLQAHQ AKEEAAQKAVNSATGVPTV
1470	9521	A	2428	2	237	
1471	9522	A	2429	68	866	GSTGAVTAATATAAAGASAPLGLPV YLAPRSTAPSPAAASALLFLV1.TPPSRP ERLPSHQQPSSATMATAPYNYSYIFKYVII GDMGVGKGSCULLHQFTTEKKFMG*FVPH TIGCWNLGLTRJNESLVGOKIKLQJWGLR QGQERLRAVYT/RAYYRGAAGALMVY DITTRSTYNNILSSWLTRCOGIPNPKVW **FSIGN*SQIWRPQRDVTYEE/AKQFAEE NGLLFLLEASAKTGRRIIVEDAFLRACPR KIQYQNIQDGKLGS

1472	9523	A	243	1124	1394	ACDDWNRMDKSHLHP PPPPFPRDPDV GSPGTRSPPTSGSRSPNRSAPPAPPA PPQVQARPP+HSPPDKKRPNCRTRGSP PWRS
1473	9524	A	2430	229	593	SLICFAVGVDCAEFWTRLA PRAEKKR LAPAVPPHHQDERGGTSTP JFHNLSHGF WVTFPALL PQYDILPLNSFLHEI QEPSLGA SOLQFSCNTYLISFSSTCHLAPVINVLA LPGASIM
1474	9525	A	2431	594	829	FCALVPLR PYATK*GMLPWLLLGHQS RAFAVALDHFLV/CHV*IPSILTKIFEN GYFVISVLLMRN NILSSALL
1475	9526	A	2432	1479	1734	LKVNIISLG MVGHACNPSTLGSQE*ATVP LILYFLNKLAFTHCGITLNSFLHKI QEPS LGSRLGPLSCNYHATALQPGQSQSKALS
1476	9527	A	2433	30	508	
1477	9528	A	2434	338	853	ERGRGFGRA GLPPLCIAA LFQFKM NYMPG TATLIEDNDKKHHLVLLRDGRTHIGFLRS IDQFANLVLHQTVERIHVQK/YTGDIPR GIVFVRIGENVWLLGEIDLEKESDTPVLO QVSH*RFKFL EEQKGWNQQTKL/EAEKL KVVALKDRGLSIPRADTFDKDLF CPEA VGS
1478	9529	A	2435	357	893	TVFQIWAHHPGQRPARQICPVPVHLGGQS HQP RHTNSEPSEASASLRLRTPLKPTG IGPGS QLEDRDRAFT*WGDYFWGKG PACLIQDG VKGQWAOPHSGV GGVGWP APRACPPVFSPOGPOSSACGQY YLSPPR KAYPQGWGRGGDPPGQNVRSVCDLRC CM/WLNCTCSF
1479	9530	A	2436	233	566	RLFLV RKRKMISFSAPPMLPFSFYFFVC PAARTK RKPSP EPEGEV/GPKINGEA QPWLSTSTEGLKIPMPTSSFSVSPPPPTA* PHSNRITTPPEAAQNGQSPMAALIL
1480	9531	A	2437	219	702	ARKVRARAAGLESRTGSTGPRPCATRC WRC TSTA TRGP SKA SFKKPEALTA VART ARKKKPSPEPEGEVAPR LSTKEAQPVG PHSTEGLKIPMPTSSFSVSPPPPTA PHSN PGPHRLES GPRM QFP FGS PDLSSRQFRG QSCSKDANQVHSTTRRNSN
1481	9532	A	2438	173	1136	ALEGAGKS RQFWRA GLQGQ ADR A R AAGRC TSTA TSQFESKF KKEP ALTA Q R LFQVFEQQRGQPGLKAVCKNSK GKGQSP LPEPRKVKSGPLKIQRRGSPRL/SPHPQR GSRS*LLHPLLCLRHIIPLHLPJITGP HRL KRPRMASP WQP*S*QTMQGASHASKD ANPGSLPITRKE*PTVGPSSVLL*TKE RL GPKRGGGP RQAT QED WEPVH P ASL PDF LFQ QPVAPL CCTLCHER LDE THF VQ/ C PS VPSWIKFCFP/CSSQOKIQQGS/SGEVY/ C P SGWIKCPS CGLPMS PWA/ FMQGEI A T/LA GDVKVKKERDS
1482	9533	A	2439	1	206	PTRPRTSYEKQGYLLPPVFSIVLEV LAR AISQETEIKS VQMGKE E V KLSI FVC VY YA*ENPVESTK
1483	9534	A	244	171	512	CTVGVRCTVFPTEHKLP AVESHLIVSRSE SVNIK*ANQIWEH/IKKIIHHHEEVGFILGM QGWLN RKA PTE BIVHINR/SKDKN HMI L D*EKAFDKI*HYFILKTL D LGI*GNF

1484	9535	A	2440	611	1203	ERLLRVLCLALGSAGTADDVKLHPVSCA DTARSTPGTSAPSTGTSAPSTPGTAPS PGTAPSAPSTPGTAPSAPSTPGTAPS STPGTAPSAPSKPGTSSASTPGTAPS APSTPGTAPSAPSKPGTAPSAPSTPGTAPS TSAPSTPGTAPSAPSTPGTAPS SKRGPQHPPHHRGPQHPPSRGPQHPP QHPPSRGPQHPPHGPQHPPSRGPQHPP PPGTSAPSKPGTAPSAPSTPGTAPS PSTPGTAPSAPSKPGTSSASTPGTAPS SAPSTPGTAPSAPSKPGTAPSAPSTPGTAPS GTAPSAPSTPGTAPSAPSKPGTAPS KPGTAPSAPSKPGTAPSADPGV
1485	9536	A	2441	447	920	GWHWFLASQSKSLKPLSLRNPCVLVSCH MAOSWARTQFELCPMCPTTCAQSQTGT ESCPNPVNVLGAGAPOPDDORCHKAGPF SSPGFRLPSSRHHGVPVLPGLGLGPGP RPPHKPSNEQRDAQQQLQLPPACPQGK LPLPLPCLKFYSPLPELPH
1486	9537	A	2442	1	374	LRKDDDTQIREAFFHIVFQSWRPAPLPSLPL PLARALAEETLNQPFQSGLITPSGILNNSO MLDFSWPNRTANHSAPS/TVVRPAEGLC GTYLALGANGAARGLGLTQVLLNVN *NRNLSDSLARGR
1487	9538	A	2443	1	315	
1488	9539	A	2444	3	2027	NSRVDDFV/ARARMAAEANEASQESALGA YSPVDYMSITISFPRLPDEPEDAPAAPLRGR KDEDAFLGDPDTDPSFLKSARLQRQLPS SSSEMGSQDGSPSLRETRKDPFSSAAEC SCRQDGTLVITACLITFATGTVTVALVMQ IFYGDPQIFQQQAVVTDAARCTSLGIEVL SKQQGSSVDAAVAAALCLGIVAPHSSGLG GGGVMLVHDIRRNESHLDIFRESAPGAL REETLQRSWETKPGLLVGVPGMVKGLH EAHOLYGRLPWSQVLAFAAAQAQDGPN VTHIDALARAEQLPPNMSERFRETFLPF GRPLPLPGSLLHRRPDLAEVLVDVLGTSQPA AFYAGGNLTLEMVAEAQHAGGVITEED FSNYSALVEKPVCGVYRGHLVLSPPP TGPALISALNILEGFNLTSLVSREQALHW VAETLKIALLALASRGLDPVYDSTTITESMD DMLSKVEAAYLRGHINDSQAAPAPLR VYELDGAPAAAQVLFMGPDDFIVPMVS SLSNQPFQSGLITPSGILNLSQMLDFSWPN RTANLISAPSLENSVPQGKRPFLSLLPTVV RPAEGLCGTYLALGANGAARGLGLTQ VRFTPWLAFFSREPSCGLCDRCRLS*QSNL LQVDSECREAETSWSGHRDR*RKDSSQG CPWVHGSRRTNFIIAVKDPRSPDAAGA TIL
1489	9540	A	2445	83	310	IFQCTKFTWDSQITPRLFHPPPTWCRLP PVSG*RRVRGWSITRQGSGGRRGPALS SQAPPKGVPFQWHLRAEG
I490	9541	A	2446	1	1833	
I491	9542	A	2447	3355	3951	
I492	9543	A	2448	699	975	
I493	9544	A	2449	3	132	GRFSSESSPRA/GPPPAPHRGHVQRCCVS PTGLLI/WKELERPFC
I494	9545	A	245	1	293	FLRWSLALPSLSCSGAISAHRL/RLPGS TNLAISTSRVASTVGMATAPGLNFCIFS REGVKHVGPGCLELPNTSSDPLPLVSPK LRDYZRPEPLCLA

1495	9546	A	2450	2	1734	TDLKRCTTYETCATYGLNVERVFQDVGI IDSAPCSAQKVVALRKQQLAIQPSASH CPNSPKHWAWSAASIPAVHNTQATWNG GKAFSDYSSVPSPTPSISQRELRLVETIAS STTPTRIKQSKRRRSNFTSRKGADLDERK KAAECKVDSIGSGRAPIKQGILLKRSKG SLNKEWKKVVTLCDNGLTLHPSLHD YMQNHHGEIDLLRTTVKVPGRPLRAT PATAPGTSPRANGLSVERSNTOQLGGGNR GRGVVICGWVSLTGADEVTFEGFNGR RERELLGFQSVQAOIILASLQGCLQCGQG DFDLGNQNAALAVQAVRTVRGRNSFCID CDAPNPDWASLNGLGALMCIECSGIHRHL GAHLSRVERSLLDDWPPELLAVMTAMG NALANSVWEALGGYSKPGPDAACREK ERWIRAKYEQLFLAPLPSDDVPLRQQL LRAVVEDDLRLVMLLAHGSKEEVNET YGDGDGRTALHLSAMANVFTQLLI/W GESRASSL*PRSS*PCSLKATSSFLPYNQ SLSHVLPVNMCFLQYGVVDERSRNDAR GLTILAYARRASQECA
1496	9547	A	2451	329	3294	ESEILWGEQLAGGPPQQFALSNSAAIRA EIQFESVHPNIAIYDILIERIEDLALQNQI REHVISIEDSFVNSQLEWILSRSPVPELKIV GIVGNLSSVGKSAULVHRYLTGGPIVQGG SPIKGGLRSEIAADGHSYLLIRDEGGP GELOQAAWIVDAMIVFVWSPCEDGIFT KTTNYFLRLCSFRNASEVPMLVGTQ DAISAANPRVIDDSSRARKLSTDLKRCTY YETCATYGLQCGSVSFQDV
1497	9548	A	2452	493	955	TLCYIILSEVISLPGTAFIQRKGLGLRPS QNNAYSLSQTSPQLIPLRQGKFDNLNA LVLFFSGGTESRSLANQLECSGMSAHCN LRFGLGSSYSPASAS*VAGTTGACHHAQLI FLVFLVEKFGHRSRDGLHLNLVRIPR OPPKALGLQA
1498	9549	A	2453	158	720	PPPCRACKQHQTCKTKRPIQRATSNVFAM FDWQSQIQEKEAFNMIDPDQDGFDIARE DLHDMLASLG\KNP*WSILDAMMMRRA PGPPSNFTPWFPHHGFEERLNHGQIPE DVRHKMMPFACFE*KKPLGTRI\EDYLR LLTHGGIGFTDEDEVDELYREAPY*PKRG INFYNS*SETRILKUHGAKDKDD
1499	9550	A	2454	2332	3329	VAGATGTHHAWLJLSFLRWSLTLSPRL ECSGTFSAHCNFRLLGSSNSPASAS*VAR ITGAHHHTRLIFVFLVETRPHHGGQVGL KLLTSGDPPASASQSTGTTGVSHAWPY FKLRCRDGVLLCCP*SQTLGLKQ\SSCQ SFPP*LDYRCPEPPRPTNL*RCJ\DRVPYL TTSPPVRSGGTRM\KEVPEQRLAGSRM GQELTQQPSTETSWSLGRRRTKSPLF*IFF MFLRRSLCSLLSSWDHRCPTCPCLDNF*IF GRDG/GFTMLARQVSN*PQ\GPPTLASQ SSGNTGLSHCNQPVAPIFAPR
1500	9551	A	2455	566	1037	GSTLSPSPGFCPENSNKCKFTNLLTAES LKLPODLISFDPSQKPTQVRHL/ESP/PGEG PPSRAFPQKNSHEIR\NCLM\KCI\*LGR MKAQPTTLLFSPSGLGMSPAAPRSRSPFGG LGEVGAGTISVPSLTPSTSETTLPQPRY GMKLADADVGKKKKK
1501	9552	A	2456	349	679	ELGHWGNRVCULSEALGLAELHPCPGNE VGPRQRG\GLAVLILAIILQGTLAQSIC GNHLVKVYDW\QEDGSVLLTGLDAE\AQN/ JSTWFKDGKMIIGFLTEDKKK\WESGEVMM PRDPRGIMYQ*RDHRNKSXITSQVLF GMCSTC\*DLNAATISGFPWLKTVTSL FVLFAGVYVIAOGGWSSA\FRASDKQT LLPNPDAPTQPLKDPRKMTQYSHLQGN

					QLRRN
1502	9553	A	2457	356	505 WTGGKKKAGWMPKKE/SVCLAQ*CMP VIPATQEAE <del>T</del> GLLEPRSSRS <del>A</del> WET
1503	9554	A	2458	35	359
1504	9555	B	2459	102	431 MIYRDLISHDEMFS <del>D</del> IYKIREIADGLCLE VEGKMMVSRTEGNDD <del>S</del> LIQGNAE <del>G</del> PE GEGT <del>E</del> STESTVITGV <del>D</del> IVMNHHLQET <del>S</del> TFKE AYKKYIKDYMKS <del>I</del> GL <del>E</del> ERQ <del>P</del> DR*
1505	9556	A	246	466	743 LNHA <del>V</del> QEMIVKIELTQHMYINFHGKLEI NK <del>G</del> KK <del>F</del> GL <del>I</del> HLW <del>L</del> NNNTVLS <del>D</del> *VKA EIQ <del>G</del> KNKE <del>I</del> V <del>L</del> RWNKKEGM <del>M</del> YQNT/W/ DVA <del>K</del> PVLRADAW
1506	9557	A	2460	1	581
1507	9558	A	2461	88	779 STWAVRGSRGWGV <del>G</del> WG <del>G</del> GGGGSH <del>H</del> DEM <del>F</del> \\$DIYKIRG <del>D</del> GRGLCLEGGRGRW <del>S</del> R <del>T</del> E <del>G</del> NI <del>D</del> SLI <del>G</del> KG <del>C</del> CP <del>L</del> K <del>G</del> PEGR <del>R</del> V <del>P</del> R <del>H</del> QL <del>I</del> TG <del>V</del> /D <del>I</del> V <del>M</del> NH <del>H</del> L <del>P</del> GNKF <del>S</del> Q <del>E</del> ASK <del>K</del> V <del>H</del> Q <del>R</del> IT <del>M</del> K <del>S</del> IK <del>G</del> L <del>*R</del> TRDPEKS <del>K</del> TF <del>L</del> Q <del>G</del> AA <del>E</del> Q <del>I</del> Q <del>A</del> H <del>P</del> L <del>N</del> F <del>Q</del> K <del>L</del> T <del>S</del> FF <del>G</del> EN <del>M</del> P <del>R</del> W <del>A</del> W <del>V</del> L <del>L</del> D <del>Y</del> RE <del>D</del> G <del>W</del> C <del>P</del> *Y <del>D</del> FL <del>L</del> R <del>D</del> G <del>L</del> EME <del>K</del> M <del>L</del> T <del>N</del> V <del>G</del> N <del>Y</del> F <del>G</del> S <del>I</del> L <del>S</del> ST <del>G</del> LL <del>P</del> H <del>T</del> TOP <del>P</del> GT
1508	9559	A	2462	12	159 WSHLLRMLQL*WS/HPPKNAAYSSCRV **ERRGLRTYGLDMCSQSFCQYAKD <del>I</del> G <del>F</del> IKL <del>D</del>
1509	9560	A	2463	46	371 FV <del>I</del> GK <del>R</del> C <del>R</del> ALG <del>C</del> L <del>S</del> Q <del>V</del> EE <del>A</del> T <del>G</del> GT <del>R</del> HAD <del>W</del> ES <del>L</del> V <del>P</del> P <del>L</del> Q <del>A</del> CT <del>V</del> AW <del>E</del> SR <del>D</del> AG <del>S</del> SR L <del>S</del> A <del>E</del> SC <del>N</del> F <del>Y</del> D <del>Q</del> N <del>R</del> C <del>L</del> F <del>S</del> Y <del>S</del> R <del>V</del> C <del>S</del> N <del>R</del> H <del>G</del> L <del>U</del> RK <del>Y</del> GL <del>N</del> MC <del>R</del> Q <del>C</del> FR <del>Q</del> YAK <del>Y</del> IG <del>F</del>
1510	9561	A	2464	1	591 GLLQAEGPWRSSGEA <del>F</del> RE <del>I</del> TM <del>E</del> IWL <del>L</del> A WA <del>I</del> SP <del>V</del> AL <del>S</del> EST <del>D</del> P <del>E</del> T <del>W</del> Q <del>S</del> RCEDR <del>H</del> FL <del>F</del> K <del>F</del> L <del>V</del> ISAG <del>T</del> G <del>K</del> S <del>C</del> LL <del>H</del> Q <del>F</del> IEN <del>K</del> F <del>K</del> Q <del>D</del> SN HT <del>I</del> IG <del>V</del> E <del>F</del> GS <del>R</del> V <del>V</del> N <del>V</del> GG <del>K</del> T <del>V</del> K <del>L</del> Q <del>I</del> W <del>D</del> T <del>A</del> Q <del>G</del> ER <del>F</del> RS <del>V</del> T <del>R</del> S <del>Y</del> Y <del>R</del> G <del>A</del> G <del>/</del> ALL <del>V</del> D <del>I</del> TS <del>R</del> ET <del>Y</del> NS <del>L</del> A <del>A</del> WL <del>D</del> ART <del>L</del> AS <del>P</del> N <del>I</del> V <del>V</del> IL <del>C</del> GN <del>K</del> DL K <del>K</del> D <del>L</del> P <del>E</del> REV <del>T</del> FL <del>E</del> AS <del>R</del> FA <del>Q</del> EN <del>E</del> LM <del>F</del> LET <del>S</del> ALT GEN <del>V</del> EE <del>A</del> FL <del>K</del> C <del>A</del> RT <del>I</del> LN <del>K</del> DS <del>G</del>
1511	9562	A	2465	3	495 GRDRV <del>M</del> MA <del>E</del> TYDF <del>L</del> FK <del>L</del> V <del>I</del> G <del>S</del> AG <del>T</del> G <del>K</del> SC <del>F</del> L <del>H</del> Q <del>F</del> IEN <del>K</del> F <del>K</del> Q <del>D</del> SN <del>H</del> TI <del>G</del> V <del>E</del> F <del>G</del> SR <del>V</del> AN <del>R</del> LG <del>G</del> EE <del>P</del> V <del>K</del> L <del>Q</del> W <del>D</del> T <del>A</del> Q <del>Q</del> QT <del>G</del> F <del>A</del> G <del>K</del> TY <del>T</del> SL <del>A</del> AW <del>L</del> T <del>D</del> ART <del>L</del> AS <del>P</del> N <del>I</del> V <del>V</del> IL <del>C</del> GN <del>K</del> DL D <del>P</del> REV <del>T</del> FL <del>E</del> AS <del>R</del> FA <del>Q</del> EN <del>E</del> LM <del>F</del> LET <del>S</del> ALT <del>G</del> EN <del>V</del> GEN <del>V</del> EE <del>A</del> FL <del>K</del> C <del>A</del> RT <del>I</del> LN <del>K</del> DS <del>G</del>
1512	9563	A	2466	1	2022
1513	9564	A	2467	3	715 REQ <del>A</del> PR <del>R</del> H <del>I</del> AA <del>L</del> S <del>G</del> DR <del>V</del> MA <del>E</del> TYDF <del>L</del> F <del>F</del> K <del>F</del> L <del>V</del> ISAG <del>T</del> G <del>K</del> S <del>C</del> LL <del>H</del> Q <del>F</del> IEN <del>K</del> F <del>K</del> Q <del>D</del> SN HT <del>I</del> IG <del>V</del> E <del>F</del> GS <del>R</del> V <del>V</del> N <del>V</del> GG <del>K</del> T <del>V</del> K <del>L</del> Q <del>I</del> W <del>D</del> T <del>A</del> Q <del>G</del> ER <del>F</del> RS <del>V</del> T <del>R</del> S <del>Y</del> Y <del>R</del> G <del>A</del> G <del>/</del> ALL <del>V</del> D <del>I</del> TS <del>R</del> ET <del>Y</del> NS <del>L</del> A <del>A</del> WL <del>D</del> ALT <del>P</del> V <del>Q</del> PK <del>T</del> G <del>A</del> FL <del>C</del> G <del>I</del> NK <del>K</del> *P <del>G</del> PL <del>E</del> REV <del>T</del> FL <del>E</del> /A <del>P</del> S <del>R</del> FA <del>Q</del> EN <del>E</del> LM <del>F</del> LET <del>S</del> ALT <del>G</del> EN <del>V</del> KK <del>A</del> FL <del>K</del> C <del>A</del> RT <del>I</del> LN <del>K</del> DS <del>G</del> ID <del>S</del> G <del>E</del> LD <del>R</del> ER <del>M</del> G <del>I</del> SG <del>I</del> Q <del>Y</del> GI <del>A</del> SL <del>R</del> K <del>L</del> R <del>Q</del> P R <del>S</del> A <del>Q</del> AV <del>A</del> P <del>Q</del> CG <del>C</del>

1514	9565	A	2468	3	953	VKMLVAVSRVPARVLLRAGARLPGAA FRTERAAGGGDGAAPFGSQRVLVEPD AGAGVAVMKFKNPPVNSLISLEFLTELVI SLEKLENDKSFRDVILTSDRPGVFSAGL DLTEMCGRSPAHYAWVLERPVQELWL RLYQSNLVLSAINGACPAGGICLVALT CDYRILADNPYCKGQIQRPKVGHICFW G*KETLGNJLGPGGGESALQVGLLFP PAGRCPCKVGIWDQVWSPEKQVQSIGLS AIAQWMAIPKPMAMHKLTKAIMRKGGQP PAWSRGYADVQNFVFSISKDSIQKSLQ MYLERLKEEKG
1515	9566	C	2469	1	774	MKEVVVWSPKKVADWLLENAMPEYCE PLEHPTQDNLNLTQEFDKKPPLCRVSSSD NGORLLDMEIILKMEHHLEAHKNGHAN GHLNIGVDIPTPDGSFSIKIKPNGMPNGY RKEIMIKIPMPELERSQYPMEWGKTLFLAF LYALSCFVLTVMISVHHERVPPKEVQP PIPDITFDHFNPVRQWAFCISEINGMLV LWLQWLLLKYKSISSRRFCIIGTLYLRR GITMYETTAPGMCNCSPKILCGDCEA QLR*
1516	9567	A	247	243	935	IPVGELYPLLEDGIAAFIEWNPTHEALWE PQEQQETQGPKSKHGEAPVGASWPFRR GGEARPPPPVRFRLIHAWKSS*PICLFLS RHICHQALPGTLDKWPSSPRG/CCSPR PGVTQCARRLSPHRVAG*QSSSGACPW MSRSSAAPPFLETPSOSPRAAL*VRKTKSP GTGEHRLWTGLGAGGVSARPVVKHAG PGGIHGRAPGAEQRSGLWKAGCWGSV RASAPGP
1517	9568	A	2470	263	621	DYRLLSRSPWPHEHEHGPWPLTIKWDFF DARQWKIEGIVTPFRKTIQKQLGCKKGILR DWPGRNNEAWRYMGGFAKSVSFS*CIL FKGFKWQDLLAAFVVAVRELEYLPGEPS* JKDKKHH
1518	9569	A	2471	1	225	
1519	9570	A	2472	99	493	TASAPPQAFRRSSSLKIRSEIRRGEKL VSRTRGEAA/RRTSRVSDQVQGKEP*HQ QNRQFTTPPPPCSRTHGSHLCDTHRS NPVLERSLVEGGHSWHSFPPCCPLCRM KRDMSLNTLNVDAPRAGP
1520	9571	A	2473	70	299	AVGSVHAGVQQWVSSGGVGGPSGSAGPP GRKPRL*RGPSEDPARRNAPAIERSRRR GRCSARGLGRDQEEQGPGRT
1521	9572	C	2474	129	602	MFERIVXADEHVIDQGDDGDNFVYIERG TYDILVTKDNQTRTSVQYODNRGSFGEGLA LMYNTPRAATVATSEGLSLWGLDRVTFR RJIVKNNAAKRKMFESFIESVPLLKALKD QGRFNPHLHFAFEGPPFIRPLVKJITPTQFLY LWFKTACLSNNLSA*
1522	9573	A	2475	38	1523	RRARPGNAEPAKERRDVSRGRARRDL AGAERKAGVSRGSDGRRRNPNPSA AGMSHIQIPPGTTELLQGQTYVEVLRQQP DLVEFAVEYFTRLREARAPASVLAAPT RQSLGHIPPEPGPDRAVAKGDSSEED EDLEVPPVPSRFNRRVSVCAETYNPDEE EDTDPRVIHKPTDDEQRCLQEAACKDILJF KNJDQEQLSQVLDAMFERIVKADEHIV* PKGDDGROQFYCHRTGGTYDILVTLTDN QTRTSVQYODNRIGSFWRLLALMYNTPRVA ATIVATSEGLSLWGLDRVTFRRIIVKNNAA KKRKMFMESFIESVPLLKSLEVERMVKIVD VIGEKIIRDGER*ITQGEKVAQDSFYIIIESGE VSIILRSRKTNSKDDGNGQEVEIARCHKGQ YFGEGLAVTNKPRASAAYAVGDVKCLV MDVQAFERLLLGPCMDIMKRNISHYEEQL VKMFQSSVVDLGNLRAVGVPHPTSLLSVT PKPSGQCPQNTYRKQT

1523	9574	A	2476	1	912
1524	9575	A	2477	3	806 EEEFAAVSERIHEQVQRDRQLENEYVCRVE GEFPTEEVTCKEPILVVSYKVGVCRVDP RGKPCETVFORLSYNGQSSVCRPLTIG RTHQIRVHLQFLGHPILNDFPIYNSAWGA PSRGRRGGYIPKTNELVFPG*AEHQAK QSLDVLDLCEGDLSPGT/LTDSTAPSS GKDDDLAEELATAVAQKQMGKK*EEAAQQE LDTIALASKEAVEETDVVMNQETDPTLCK MPAGATGSLAPRPCDVPITCPNAIKGQAL STHPMPAWAQDDWQKD
1525	9576	A	2478	184	793 DFLLVL.TGLYIYRKSKHVKLE*IEFINV TSKYVNIQKDIAILRTSQKH*TKN*KYKA KYLEIN*TNOQFYNEVYKTLRKKVNDN LGKWTIPLYSSTGKLDIVKMSIIRLFYKT NAITGIVPK/HSFVKNPKEPKLJ/YGNMGN REGKTIKNKKVGRSLPDFQKYYKAT*I KIVWY*CKRQMNQEAITSAKRKPKWS L
1526	9577	A	2479	69	403 SLRRGAGAKAGRPLAPALALGGOTQP EKGPAPP*NGWTGLGAGPPAWRARP PPEFSOFLSYNMS*AKVGG*EHGSTAPG EGG/P*RKGGGPPPPNPQRQQSPGTSP
1527	9578	A	248	56	247 QEQNPQISLTJLNRNG/LNATLKRYRLN QIK/SFCKKDQTMCLQETYLTKDTHR PKVKG*KN
1528	9579	A	2480	502	834 RRLPTGILAGRVAAPVAPTHRTQNSLLQ QRTIPRPWRGGSHL*SQHFGKPRQADHL SPVG/PRVSPG*RGETPSLQRJQTLAQVLC CAPVVPATREVEVGGSPERGSRRLQ
1529	9580	A	2482	1	220 VNMDRDRFGQJIMIENLRRRQCELAGVETC KSLESRIESLEFLDEM*/LLEQLM/RHYCL CWATKGGNELGLKEITY
1530	9581	A	2483	98	394
1531	9582	A	2484	1	381
1532	9583	A	2485	1	645
1533	9584	A	2486	10	1228 AAPAEPGRALPSSVAFLWLAPSPAAARR PRFHVPFGAQLPGTVHARWFARQRIESSI TSCCSTSSCDADDEGVGRGTCEDASLCKR FAVSIGYWHDPIQDVLWRLSKQRIKAP EINRGYFARVHGCSVQLIKAJFLRKTEC HCSNCNSLNGQGMGSPPFWRLKDEDSL SQVNIFEVDFPMIVTRKLHSIKWLAPPLS SPLIEHSEDTLQMASDCICDGHLDSK YAVIGADLRLSELEKKCNMINTO PTP*IAECVLYVYMTPEVQSNLILWAAN SFERAMFIYQQVNMGDLFGQJIMIENLR GRP//CDLAGVETCKSLESQKERLLSWNG WENKHRPVRT*LEFVPPGLPSKLX*SRIE SLEINLDENWELLEQLMURHYCLCWATQ RRK*SLGLKEITY
1534	9585	A	2487	3	247
1535	9586	A	2488	1	922 MQLKPMENPEVSARCTATRRARGRGR GSRVADRFGEAFFFAFAFQMLNKVLSR LGWAGQWRFVDSLGLEEEESLGSVPAPA CALLLFFPLTAQHENFRRKQJEEELKGQE VSPKVVYFMKQTIGNSLGPLGPNSTQGPNI KDQLGFDGGSVJUKOFILSETKKNVPKLKD RAKCFEKENEAJQAAP*MPVGTGKAQCR VDDIRVNHFYSG*PTVDGPPSMNLDDGP NAFSPWTHGPQLEDTLLKADSKVCCR NSPEREQRSSPASSARGFSCKGSLNALW GGICWIFPSPPFKHKGKVITPPCQSKMLQY L
1536	9587	A	2489	18	255 NWISFLPHYSHPEVYERYDSVL*IPFSL LQ*PIENVYPKI*KKKSTSNSKIALVLSGT YKNSLEPRSGASSVLLWFTPNL

1537	9588	A	249	1	372	RALAVSMLGAWPGPWALDWGPYSMTA RHGTFSL*APYPPCPAGPPAPRQQKG APSGCGGRSISCSGRLPSVVPWPLMPAQR PSV/GGGLHSAPNARKAQAQYPGCLPFYLP LPGLLSGWSAGFLC
1538	9589	A	2490	2	568	ERGRKMAVESRVTQEEIKKEPEKPIDRE KTCPLVLRVFTTINNGRHHHEMDEFSRGN VPSTELQFPL/WMDATLKELTSLVKRV YPEARAKKGTHPINFATVFTDVKRPGYR*F SFLQS**GGLASTMSGRKGTVDDSHPELJQ SQKFVQIGDYLDIANYPLPNRGTTHPPSIG RMRPILNPYLLFVEFIFPSVM
1539	9590	A	2491	3	506	FFFLFLKTSTLSPITIHLCLQREGPAGAE AAVAGGAAPRGAEGPAATSTETGGSAGD/ AAPSPP/RGLPSK*QEGPGPFWGDPNARQ WPGRGRREAWRGLRAGSGESHQVGP WFASRSTGGSGQVGGAGERLGEDSGL GQVKATRWGLSPPPAALEEAVANTGPSP PC
1540	9591	A	2492	3	639	AEEPPGRJHLLTQLCISLALIQTMRVHLT PEEKSAVTALWGKVNVDEWGGKALGRL LLVLPWDPDKRSFEVLWGNLSQLPECC *WGKPLVKKGSMAKEVLGCPLDGLA HLGQPSKGTFAHTEVSLHCDKLHRGSL KNRLLGNVGLCCLLAHHFGKRISTPP VQAAA*SRKLVLGLVLAJKCPWPWKHYHLKL AVLQFLFKGFLWSLKLTN
1541	9592	C	2493	217	396	MSEETAKEVMRAYLQLRQETGLERLCE KVFDPQNDKPSKWWTCFVKRQFMNKS SXPG*
1542	9593	A	2494	79	778	NPGAAKMPAYHSSLMDPTKLIGNM/A HLPIRSQFKGPAPKRDRTRIPDIVDEAFL PSGPNVFVKNYEIKNEADITLIVITLYIS ECLKLQLKQCOFPKAQGGGKEMFYAGE STNFSHFLGEPGFFPL*PPFYAQTWPTIQ EDEVMRALFTTQLRQETGLRLCGESFS DPIQNG*TPAKW/WTCFV/KRQFMNKS SGPVTEVGSPGQPTVPEALGQHFSKSM LHNLFAPI
1543	9594	A	2495	1	471	
1544	9595	A	2496	1	1524	
1545	9596	A	2497	2	719	RPQRAGPVRRAGVMAALLDLALEGMAVF GFLVFLVWLMHMIAIIYTRLHLNKKAT DKQFYSKLPGVSSLKPLKGVDPNLNNL ETFFELDYPKPLFFSVAPMKRIEKTM** P*CSTY*YEVLLCVQDHDPDAIDVCKKL LGKYPNVNDARLFIGGKVGVPNPKINNL PGYEVAKYDLIWCDSGIRGTMEMPPMSL EQQYDNPVNRDPIYRNNNGDADGQHLVILH DFYQQSGGPCKSLSNA
1546	9597	A	2498	200	370	
1547	9598	A	2499	295	1546	CVLLDIALEGNPVFGFVFLFLVWLM HFMIAIIYTRLHLNKRATDRQPYSKLPGV SLKLPLAKGVDPNLIINNL*ETFFELDYPK/ KPNLHMTLFD*YEVLLCVQDHDPDAIDV CKKLGLKYPNVDAIRLFIGGKVGVPNPKINNL KINNLMPGYEVAKYDPIWICDSGIRGTMEMPPMSL QGFAATLEQVYFGTSHPRYIISANVTF KCVTGMSCSLRKDVLDQAGDFIAFAIQ YIAKDYFMAKIAJADRGWRFAMSTQVA MONSGSYISQFKSRMIRWTKLRINMLP ATICEPISRMLPLPSLINVWDGQAAHHVFR WDIMVFFYGCCHLIAWFIDYIPTPGVS QGGTLCFSKLGLMQSPWFIRESMTIYIPL SALWDPTISWRTGRYRLRCGGTAEIIL V

1548	9599	B	25	922	2057	XQTIDSPWFMISEKQRNFNAESTIGSHIH GPRIVAGLHAPTLMEEDEDALQETVRAS IRKEQRNSRHDGGDGIRKAHAAPRESS MRKSRPKEVKKRWNRPKMSLAQKKD RAVQKKASFLRAQERAAES*
1549	9600	A	250	13	475	NOSSLRSPLRL*SRTPQSS*VAGITGAHH HARLIFFFFFFFFFFESCRVSQAGVQWRDL GSLQALLPGLPTFSCLTLQSSWDYRHP RPANFLYF**RRGFTVLRALMVLIS*FRDP PASASQSAHIGVGSHRARPRGRLLAPS CRNRLEG
1550	9601	A	2500	3	331	GAILAHCNLRLP/GFKQFSCLSLPRHS*TS Q*PLTSRLPMVRHG*VKKSEGILCSLP TT*VPTSSAPMPWPWSQWERSSRTMTVIS SSQLMALGPSCPQRDGSPTSSP
1551	9602	A	2501	15	310	DRVSL/LSPRLCECSGAILAHCNLRLP/GFK QFSCLSLPSSWDYRRAFPHLANFLYF** RRFRRH/GCPGWSLSSGN/PATLAF*KC* NYGHEPPHPARKIH
1552	9603	A	2502	3	467	PAPOSILLSARHVSALPTPS/R/RCGSLPP MTPKTMPPRA/VGSPLCVPARRSSEPK NSAM/RALLVDIKLEPLAVTPDAA/SQQLI DLPLIDFCDTPEAHVAVGSESRPLIDLM NTPDMNKNVAKPSPVVGQLIDLSSPLQL SEADKEENPSPLL
1553	9604	A	2503	2	273	FASIPANSSRPLSNISKSGRMGHAMLRPA LPAQPGVASSWQAKRSSESSQLNKTRSIR RRHSCLNLSKTKVMPPTPTNQFKIPKFSIJD SPKA
1554	9605	A	2504	1	472	GRVTVVHSTPVRRSSGPGPQSLLSARRV SALPTFASRCSGLPMPKTMPKTMPPRAVGS PLCVPARRSSEPRKNSAMRTEPTPRESN RKTDSLTVDVSMDRGSPPSRVPQALNFS EEDSDTFSKSTVPLIDFCDTPEAHVAVGSE SKPLIDLMNTTPDMN
1555	9606	A	2505	759	1664	TAGCGGLGCASGPQAGHPATGQPQTLLPS AGGRAWSSCPPTPRAFLHRWPAWGWECCG YRRWS/RAASYSPWKNKVLLIKPFSirYK AQSNSYDKPTYQSPSRSLSA *IPTH* SLLSSRGCERRCAPTMRQPGAADETEPMC YHSPWHHSLLFLPSSCLWAGAGVEDKE VPLWRVFLPGRRSWFSSQKSRLCLSHSC LGGCQVSRRGKFEQQNQLSSVPDSPGPKNK HHGKISGPTCLSGGGPGESEPVIVHRLSESS HWQMSLLQTRAAPALSAAGFLKSPPLS SQPGPALCPASRSFQCSAQQ
1556	9607	A	2506	1	377	ASRRCUSGLPPMTPKRCPCRGSPLCVPAR RRSSEPRKNSAMRTEPTRESNRTKDSRL VDVSPDRGSPPSRVPQALNFSPEESDSTF SKSTATEAREEAKPGGDAAPSEVGILL EPRSSGPAWEMM

1557	9608	A	2507	3	2112	LLLADEKFDPDLSLSSSSANDDDEVFFG PFGHKERCIAASLELNPNVPEQOPPLPTSES PFAWSPLAGKEFVEVYKEAHLALHIES SSRNQAAQAKPEDPRSQVVERFIQESK LKINLFEKEKEMKKSPSTSCLRKRETYYLSDS PLLGPVGESECTAHAAASQAATQRKPGT KLILLPRRAASVRGRSPIGAAEKRTRAMPK GRKRKK*QVLF**GCCGG*GEGLGGGE AGSSRIAPKKEIPASPSRTRKIPAAEKEESHR DVLPDKPAAGAVNVPAAGSHLGQGKRA IPVPNKVNNEIFADSFSVSHAPULGLKTKL LKAPGSTNSLARKSSSGPVWSASSACT SPAVGKGLCCTPVCPARPARPLHSSCK MTPSRPWLMWQCREGLECP*GSGGTWV URISCDRRAGRGSQSPRHPGSSEVLG* TWRPGERTGQSPDSTPKLSSAQRQPOS TSVQSSRH**CCVCRVTVHSTPVVRSSGP APQSLLSAWRVSALPTPASRRCGSLPPM TPKTMPPRAVGSPLCVPARKRSSEPRKNS AMRTEPTRESNRKTDSSLVDVSPDGRSP PSRVQALNFSPSEEDSDFSKSSTATEVAR EEAKPGGDAAPSEALLVDIKLEPLAVTP DAASQPLIDPLIDFCDTPEAHAVVGSES RPLIDLMTNTPDMMNKVNAKPSPVVGQLIDLSSPLNQL DLSSPLQLSPADEAKENVDSPLLK
1558	9609	A	2508	68	2331	LLTALSMECGGRDDEPSASRAGDVNMMD DPKEKDLILLADENISTFDLSLSSSSANDE DEVF*PFGHKERCIAASLELNPNVPEQOP PLPTISEPFAWSPLAGKEFVEVYKEAHL LALHIESSSRNQAAQAKPEDPRSQVGE RFIQESKFKINLFEKEKEMKKSPSTSCLR ETYLLSDSPLLGPVGEPRLLASSPALS SGAQRALTRAPGPPIISAHALPRESCTAH AASQAATQRKPGTKLILLPRAASVRGRGI PGAAEKPKEIPASPSRTRKIPAAEKSIRD VLPDKPAAGAVNVPAAGSHLGQGKRAIP VPNKLGLKKTLLKAPGSPSYSNLQRKSSS GAIWWSASSACTPOPVAKAKSSEFASIP AN*LPGLCPNISKSIGRMGPAMLRPLAIP AGPVGIASSWQAKRVDVSELAAEQLTAP PISASPTQPOTPEGGGQ*WLNNSCAWSSES SOLNKTTSIRRDSCLNSKTIVKMPPTN QFQKPKFSIGDS*PDSSTPKLSRAQRQPCSC TSVGRVTVHSTPVYRSSSGPAPQSLSSARR VSALPTPASRRCGSLPPMTPKTMPPRAVG SPLCVPARRRSSEPRKNSAMRTPTRES SRKTDSSRLVVDVSPDRGSPSPSRVQPAQALNF SPEESDSTFSKSTATEVAREEAKPFGDA APSEALLVDIKLEPLIAVTSDAASQPLIDL PLIDFCDTPEAHAVVGSESRLIDLMNT PDMMNKVNAKPSPVVGQLIDLSSPLNQL PEAKNDVDSPLLK
1559	9610	A	2509	1	353	DVQLEGAKIGSTEITFTPEKIKGGIHTAY TKTAGSVCLLMOVSMPSVLFAAFPSQLH LKGGTFKVAQDMATAAVRCIKKEIRD YVNIOPVQEPKDQAFGNGNGHIIAETSTG CLF
1560	9611	A	251	986	1401	LEQGCNLFHKHS*LGEVFFFVCFRRSFT LVAQAGVKWGDLSL/HKLPSLSSLPS WDYRHPPLRLA/NFFVFLVKMGPFTVLA RMVSI*PRDPPTSASQSAIGIGVSPRAGP VAGILMFCRWNSNPKGAVIEKKKK

1561	9612	A	2510	29	1262	TKVSELLCGSQRLLFFPLWRRLCRCGLG PRVSPMAGRVEVDGSIMEGGGQILRVS TALSCLLGLPLRVCOKIRAGRSTPGLSMLT *RPQHLSGLEMIRDLCDGQLEGAEIGSTE ITFTPEKIKGGHTADTKTAGSVCLLMQV SMPCVLFaaS*SELHLKGGTNAEMAPOQI DYTVMVFKPIVEKPGFIFNCDIKTRGYYP KGGEVIVRMSPVQLNPNLTERGCVT KIYGRAFVGVLPKVAKDMMAAAVR CIRKEIRDLYVNQPVQEPKDQAFGNGN GIIIAETSTGCLFAGGSSLGK*GFNSDKV JEAEEWLLANLRHGGTVDEYPARPSLJ VFHGH*PNGVSRKTTGVPVILHTQT/ API HFAEQIAKG*IL*RNPEDEEDA/ADTVI IECQGIGMTNPNL
1562	9613	A	2512	900	1189	SQHGPGRPRADHLSSGVQDQPGQRGKTP SLLKJOKLLAGRGGSLL*SQLPRRLRQREN RLNPGGGCSCLRSDCTPAWATEGNS VSKKNK*KKKK
1563	9614	A	2513	1710	2221	SPILLDVYFKTRLLSIRGRREPACTLRLNTI GTLSSHCPGLIOGPHPGPSGKTCGPFKPR GPHGSSPPPDKKQVPTVPLPPLPAPLRLWA QAGLPGYAGISGSPGRPLGAQAG*GSV IGESNYFVHCMHPRPGPGSPHI/PGG*GLQ PKPPRPLPSSSGSTTGLDGRKPCSYSSQ
1564	9615	A	2514	205	295	GCNGNKDSCGPIAPSSGIDILLTVKRSLP R*NFSPCAPCSSSSKRAMCSRVCSPWGL *CPIAPSSGDILLLTVKRSLP.
1565	9616	A	2515	1	927	
1566	9617	A	2516	932	1688	KGFKNPPTFPCEIPAGQTHKPHHJHNKHSS PPVQKLKLQMKMKNEVYETSYPEPESYS PTLPVSRRENNNSPNSLPRPSFCMEEYQR AEI&EDPILSARTPSPVHPSDFSEHNCQ PYYASIDGATVGSSSGCLCLGNPRADSIH NTYSTDHASAAPPSTVRSVENDGYIEE GSITKHPSTWSVEAVLFLQKTDPLALC PLVVDLFRSHEIDGKALLLTHGVTVLPREAT WGVKLGTGL*SLCYLH*PDLKQGKCL
1567	9618	A	2517	3	179	
1568	9619	C	2518	140	490	MAWFHDMNPQSIALIPPAETEISADSQSLP C1DKDSEGVKDVVELVLPXEXSMFED ASVS EGRGTOJEENPLEENILAGEXASQTGDSG NEXANRGDGDVSSQTPQTSDDWLEXX XLX*
1569	9620	A	2519	194	405	KKLWKKJFWRGKQHKLVTVVTTAAN RGDGSDDVSSTQTPQTSDDWLEQVHLL*TA HIWGSKWIYRYSVC
1570	9621	A	252	303	551	QEGIKSCKSDENSGLAPGQHGETPSLLK VASKLAGYGGACP*SQLRRLQENCLN RDLGGGGCSEPRSCICIPAWITTEQDSV

1571	9622	A	2520	1	2046	MRQNSGGNVHLPAAHLVLCGLVPNRPW TGKNNKRNKRHHLGCPQPTLAKIAAKA GSAGNFRYPLILGSPANWVFMNFFQSK ATLDFNLICSLNVKDVAEVFKQWLKIEG KKCHCLSEKTKQNMGNTTKFRKALIN GDENLACQIYENNPNQLKESLDLPTNTSYGE PYQHNTPLHYAARHGMNKLGTFLGRD GNPNKRNVHNETSMHLLCMGPQJIMISEG ALHPLRLARPTEDDFRRADCLQMLKWK GAKLDQGEYERAAD/AVDNKKNTPLHY AAASGMKAACVELLVKHGGDLFAENEN DTPCDCAEKQHHKDALNLNESQMVFSR DPEAEEIEAEEYAAALDKREPYEGLRPQDL RRLKDMILIVETADMQLAPLTAELLURA HDWDRERKLLAEWMSNPENCCQSRGVQ MPTPPSGYNAWDTLSPRTPRTTRSSVT SPDEISLSPGDLDLTSLCDICMCSISVFEDP VDMPCGHDCKGKCGWESFLNKLQGEA HNIFCPAYDCFQLVVDIESVSKEMDK RYLQFDIKAFVENNPAIKWCPTPGCDRA VRLTQGSNTSGSDTSLSPFLRRAVADC GKGHLFCWECLGEAHEPCDCQTWKNNW LQKITEMKPEELVGVSEAYEDURQ/CVC *VMN*TAKPCANCSPQKNEGCNHMQ CAKCKYDFCWICLLEEWEKT
1572	9623	A	2522	2	119	ESTVSCECPPTGAMP*MHATACRCPCSI WRLLKLSMRLLR
1573	9624	A	2523	159	627	LGRMMDPQGGQMRWASYSLTFAKDVQC LGLSHYFAGAAASGGCAQARCGPGPQR* GPFAPVPSPSPLALPPMGRKTLHPGMW ALH/VRIPVPGKEGVQVLIGEISCVLLQK ASWSEASTLCPAKGAIPNGAFAFHQRQGR PEAHLGHRLSLAPPREP/VET
1574	9625	A	2524	3	307	
1575	9626	A	2525	1053	2813	RTWEKAPEQADLTGGLADRSELERSHL MLPLERGWRSQKEGAAAPQPKVRLRQE VVSTAGPRRGQRRIA/VPVRKLFAREKRPY GLGMVGRLTNRTYKRKRDTSFVKRQJEDM DDHRRPFTY/WLTFVHSNLVTILA/CTVY/GIA PVFGSQHETVDSVLRNRGVYENVKYVQ QENFWIGPSSE/DLJLHGA*ISPICMRQDPDQ GLSFIRSAKERERKHSACCVRNDRSGCVQ TSEECECSSTLA/WWVWP/JP/HSAPELAGH KROFGSVCHQDPRVCDEPSS/EDPHEWPE DITKWP/CTKNSAGNHTN/HPHMDCVITG RPC/CGITKGRY/CVCPAS/AAGL/WAQSIAL GCEITSREY/CDP/FRMRG/YFHEEATLCSQVH CMDDVCGLL/PLNPEV/PDQFYRL/WLSSLF LHAGQVTLLHCLVSI/CQMTVLRDLEK LAGWHR/IAITY/LLSGVTGNLA/SAJ/FLPYR AEVG/PAGISQ/FGILACL/FRGSSRAGQIL GAALAC/LLQ/ACWLWVLF/FH/LWG/LLP WDLITFAH/FGGSS/VALFLSFA/FLPYISFG KVRPV/PE/PLPDHLSGG/PLPRA/SWLA/WW SSSTSILSAVSRVSS/FA/PSP/IDKLL
1576	9627	A	2526	1	936	
1577	9628	A	2527	1	1023	
1578	9629	A	2528	157	512	LG/LQPPPPGFKRFSCLSLSSWDYRMRH HAWLIVFVLEVMGFTLISASRVAQGITGM RJHAWLIVFV/CSR/DRGVSTCLQAGSQT PDLKVICPLGP/KSAGITGVSH/CSWPVIIY V/LSTL/HAVRNVLFKRTFLPKSSFLSVD KEIP/PI/IGL/KFYLVTLSFVKG/II/LLK
1579	9630	C	2529	11	133	MPCSLQPTD/LRKEXMN/LQI/LRSS/NK QRFPGLPRLCD*

1580	9631A	253	3	401	STFGFQGTGWETRWGPT*PGVSAWSLVPSPVLETPDLERGKRAHGLGVATAGGPAGPYRLSPHTLSSRKEGKGEAASKGTEAELMTIGIENSTCQSCLSPSPSHYFWSPRGAGPKAMWLVGDGRKGATKNDKRGY
1581	9632A	2530	367	676	KVVTIILILILQRKRGWGA/PGSDPKSPCCSDSKGQASFTAP*CSYLYTADGRGLLAWG*GLNRSAMTSNPDQTHLVAQTSGKPERKHKVSGFLVKBVPAATAYDNG
1582	9633C	2531	156	683	MKLRQRWRHPAHFSGTGKMGIEGGTQVSVGTVGTVD/IVGCVCLSTSSHYANRNDTFRCLCRKRCRQILKSQRQGVKKSCISVPHQLSQALQAMRDSSSEPWAISLKFREDEALASKHYRRRNAPRAALRQFLSDFIRDCLNVFKTKYHLLMMGRTIMRCPECA CGEGKKNVLF*
1583	9634A	2532	427	458	KQSYTPTLTLIQMIMGF*FFVF/FRQSHSVVEAGVQCSHGSQPLPPGSNNPPTSASR VAGTTGAHHHDLFLFL*RRGFAALLHRLVSNSRWSRDSAWPSAFPKWLGLWVDVEA TIPRPLGLFSHLVA
1584	9635A	2533	57	463	ARTPLQAGGLVLVSLRSLSLPLGLSPLPTVSCARWPLCPRWSSPLPGFWDSWHCNH RTGIRHTPGGLDTQSA*VNKLIWKGKGNHL*PQATAQLWPQLGGWQGWTRPSRWWPLSPEP*GYRSLKDTSFANTFLF
1585	9636A	2534	3	469	RKTTTATMISLCKRKVNGHAG*ETLRLLVVWPWTORFEDSFGNLSSASAIMGNPKVKAHKGKVLTLGDAIKHLDLKGTFAQSELHCDKLHVDPENFKLLGNVLETVLAIHFGEITPEVQASW/QEDGDWSGQSVLQPLPSSLAMMQSCQ
1586	9637A	2535	41	676	APSRPWPWGHFTTEEDOGGLLSTSLLWCKVINVKECWKEKTPGKGSLLVYWPWTQRRFDISFGNLSSAAFHGGTQPKVKAHKGKVLVLTGRCQGSTLDLKGTFQLSELHCDKLHVDPENFKLLGNVLTVLAIHFGKEFT/ERLQASWQKMGD*SGQCPVLOJPLSLLPMMQSQFSRIRLFLQAITNNKKSISAKRSHMIFSSFFYIFLNI
1587	9638A	2536	107	331	
1588	9639A	2537	386	1074	NNPEWRTLIVVDKENGEPGTRVVAKDG LKLGJGSPSKIALDGRSQVSYTPRFGKTFD/AHPALPKAT*KGFGELSTGATEKSVKDPGDPKLQKNGPAFSGPKKMDLKKDCLQKSSVSWPSQGLMPNPRNKTQKFFPLQILDF*GVFD/LCPEEHPLDLRHLPLSJVVPLMPLTREREL*KSWFOLQPPFHLLWKDGP LPWGIPICLQFSFGISVRTWGV\DLPPVCCIDI
1589	9640A	2538	1	359	
1590	9641A	2539	1	483	FOLEVTPQNTILNPGFGGPVFSWRDQAVLRQDGVVVTINKRNLVSVSDGGTFEVVLHWRWKGSVHVQDFLGFYVLDSHRM SARTHGLLGQFFHPGFEVSIDHFGSDPTKPDATMVGWQKDYSKDPWHGAEVSCWFIHNGAGLJIDGAYTDIVPDI
1591	9642A	254	1833	2126	EKKRKRGGFKTKPLLKCPGPWGEFRFWGPPKGKSQV*G/H*MGPNLGERWKKGPKRKPKPTKGPFFGVHPKRNRRPHLG/WPGPTLKKGKNNL/GFC
1592	9643A	2540	3	310	EVRAVNLSQALRMLWLDYGFVPLTSMISI RGMADQDGLKPTIDKPSEDSPPLEMLGP RRTFVLSALQSPSTHSSNTQRLPDRVTGVDT*VVI*PYVLCWNLC
1593	9644A	2541	1	1482	

1594	9645	A	2542	37	2885	SMDGAMGPRGLLCMYLVSLILQAMP ALGSATGRSKSSEKRAQAVDTAVDGVFIR SLVNCKVTISRFAHYVVTSQVNTANE AREVAFDLEIPKTAISDFAVTADGNAFI GDIDKVTAWKQYRKAAS*EKA/GLVR ASGRTMEMOFTHLTVNPKQSKVTFQLTYYE EVLRNHHMOYEIVIKVKPKQLVHHFIED VDIFEPQGISKLDQAQASFLPKELAAQTIK KSFSGKKTNSHSSRRFQGHVLFRPTVS QQQ
1595	9646	A	2543	159	1222	NNSGVMPMPEDMEQEEVNIP**GGFW VTGCHWGFGLGRAVHKEFQQNNL/WHA VGCGRARRPKF*TG*ICWDNSNAVHHH HDFQPHVIVHCAERRPDVVENQPRCL PJQLNVNDASGEF*AKGKAAACLGSISSPF Y*AAVVFV*WEPNPVYREEDIPAPLNL YQQTKLDRKGCPWRNHLGAAVRLRIP LYGEVEVKLEKKCCELLMFE*KCQFSQQS PAKQWIIHWQARGSPPHMSKDVAPLCA QIAEKRMMLDPUSIKGTFHWSGNEQMT KYKEGMQCOLPDAFNLPSSHL/RDPITDSP VILGAQPRPNAQLDCSKLETLGIGQRTP RIGIKESLWPFLIDKRWRQTVFH
1596	9647	A	2544	211	463	
1597	9648	A	2545	188	366	SCQSACQKNGKIIIRLQLLG*DRLEDTL LNTHGLLQSQILCQFCFLCTCQQKVLRIS K
1598	9649	A	2546	1257	1441	
1599	9650	B	2547	74	733	MAWKSGGASHSELIHNLRNKGHIKTDKV FEVMLATDRSHYAKCNPYMDSPQSICR VQLVVGDRGRMGYAAEAPYDAIHVGAA APVVPQALIDQLKPGGRILIPVPGAGGN PNVGASIPGSRMASIQNEALWMGGDIRA L*
1600	9651	A	2548	45	972	TVQPHVSGSGDGSNSGSYSGDAASGA TVWEVVSLLGKLLGTVVALKVVLVLLR VCLAMAWKSGGASTSELIHNLRNKGHIK TDKVFEVMAATDRSHY/SQKCNPYMDS PQIK*GFQATISCSHTCNAYAALRNFLFWI QLWHEGSLKLFDVGSGKWESELACPAR MVIGCTGVKIVIGIDAH*RS**DDSVKLMLF REGTIPITLSSFRGGVQLVCGGMGRMGYI AAEAPYDAIHVGAAAPVVPQALIDQLK PGORLIPVPGAGGNQMLEQYDKLQDG SIKMKPLMGVIVYVPLTDKEKQWSSGM VKATSA
1601	9652	A	2549	2	478	
1602	9653	A	255	70	380	YSNPNPKDRKGETGINEKTNKVMVDLSS YTSVITLNFM*ML*/D/KIN*KFVKS*KKPT LCCLETYFVKYIGGLKVKRWRKJ*HAH TIGKKTLLVAILITKUTSELS
1603	9654	A	2550	392	1245	CTFTKVFLRLIWYRNMLLKNSVTPLPS CHPSAQCLGTLMRALSQVFRDAW/WW ASVDVNEEASASIVKMTDSFTEQAD QVTAEVGKLLGEEKVDAULCVAGGWA GGNAKSLSFKNACDLWAEAHYWTSD HLPNLALTKHLKEGGLLTLAGAKAA LDGTPGMIGYGMAGKAQGAHVQLCQLSLAGK NSGMPPGAAAIAALPVTLTDTPMNRKSA MPEADFSWITPL*FLVETFHWDITGKNR PSSWGLQVVTTEGARTELTPAIFGLISV PMRWPQAQKSH
1604	9655	C	2551	60	266	MSWLSCLSNITVWNISPVLSSFGNSLJ SHLXKIPPEEPFLTPLLSSPSGFXPHVPR VLRQSATV*
1605	9656	A	2552	I	513	

1606	9657	A	2553	345	2343	LLGHEEQTRKGKRKAAGMVLSQLDV TPRDEIAIEFSQEEWVKCLDPAORTLYRDV MILENYRNLSVLGIFSKCEIKEPPKCESN KEKYRSQ*CWKDMKSHRHTKIFCFRETQ KNVHDSQCLWKHD*RHYKRVRTVYKG KSH/CVEETMPG*KG*CHKSQPC*KSSLG LNPATVCLPLRTQCPISKPEGKIVYDHHM EKSVNSSLVSPPPQRISSTVKTHISHITYEC NFVDFSLFTQKEKANGTEHYKCSERGKA FHQGLHFTIIQHIIHTKEQFKCDCGKIFN KKSNLASHQHRRHTGEKPYKCNBEGKVFH NMMSHLAQHRRHTGEKPYKCNECGKVF NOQISHLAQHRRHTGEKPYKCNECGKVF HOISHLAQHRRHTGEKPYECNKCGKVF SRNSYLVQHLLIIHTGF*PKPYRCNVCGKVF HHISHLAQHRRHTGEKPYKCNECGKVF SHKSSLVNHWRUHTGEKPYKCNECGKVF SHKSSLVNHWRUHTGEKPYKCNECGKVF SRNSYLAQHLLIIHAGEKPYKCDCEDKAF SRNSHLVQHIIHHTGEKPYKCDCEGKV FSQNSLAYHWRUHTGEKAYRCNECGK VFLGLHSFLAHDPKIHTGEKPFKCNECGK AFSMRSSLTNHQHRLHTGEKHFCKCNECG KLFRDNSLVRHORPHAGKS
1607	9658	A	2554	3	517	STRTQNVLGEGKRRIRELTAVVQKRGF PAESELRYKLLGLAVRACYGVLFIM ESGAK/GCEVVVSGKLRGQRAKSMKFV DGLMIHSGDPVNVYVDTAVRHVLLRQG VLGLIKVIMLPWDPPTGKIGPKPLPDHV SIVEPKDEILPTTPISFQKGNAEPPAMPQ PVITA
1608	9659	A	2555	3	493	
1609	9660	A	2556	24	861	INPPPPRLSFQRSAAARWPVOISKKRKF VANGILSKLNLLNEFLTRELVAEDGYISGI VEVRTPTTRNRKSFISFHQKHRMVLGEK GRRIRIELPAVVQKSP*GPRGAAVELY A*KRWPT*/RGLCAICPGQSCLCVYKPS*G GLAVRRAL/CYGVLR/RGSGFEGVGPCKCE VCGCLGKLRQORA*N*SFVDGLMINS GDPVNVYVDT*VRHVLLRQGVVLGIKV KIMLAWDPTGKIGPKPLPDHV SIVEP/ RDEILPTTPISFQKGKPEPPAMPQPVPTA
1610	9661	A	2557	116	718	IFLQAGCLKLVIRSKAGDISHDVTTHCQTV HPKAVSISTMTENTPFTLSPALSPFNNL PFCQIEK*YLLTTLFLIAYEVESLCL*SVF LYIKFL*PLSNFCLL*VLLVIIHLLFY MYPFTPLMSKNSFKVLL*KVKGFTF*KCS QIYLFFHGYWVCLLGWECLSYITITIFQ YFLLVIIFNFHV*FILIPFIHDMK
1611	9662	A	2558	88	811	GSGGNHSCCDTMEGGGGSDKTTGV AGFGAGGAGC*YSHADLAGVPLTRMNP CFYLNVUDPRYLVQGQYKMKFPTLPELIK TRQODKLKLAFFTIGGCCMTGAAGFAMN GLURLGLKETONMAWSKPRNVQJLNNG *LGKGALWANTLGLWALLY*SAFGVII EKTRGAEDDLNTVAA*GTPAGILLYTCTG GLRGIARGGLTGLTLSISLLCTIYNTWG AHKGGSLASNSSLWKVFAOPP
1612	9663	A	2559	1	210	VIRLPIGKKLFRCKPG*TWAPPGL*SGR PRSSSSPF*N*MHFLFERESSFHRCWK AGITCVKSWYP
1613	9664	A	256	225	353	RWGFDTLRLRRQENHLLNRGVGGCSEP RLCTPAWATE*DSVL

1614	9665	A	2560	128	687	THVLWAFFGARVHLQTGSWRAGVAAA ALALGGQASLSYARGKES*GHSPPTHT HKAASGGREERAVSPSPVAWVSHGSPPLLS EYTSQQVKGHISGPDPVVTH/WAPFP DQLPPSPCPPLSRKEPEPSPLSHPPQGVTP GQAQIGQLRTSGLWGHKRGGWARAEG APVSLLLRGPFDPATVSEAQR
1615	9666	A	2561	246	410	
1616	9667	A	2562	1	414	AWHEEHTHKVDSLGLPEKKKKNNKVVKEPE TRYSVLNNDYFADVSPLRATSPSKSVA HQQAPEMPLVKKKKKKKKKVSAALGKE VKRSQSLSLRLRNTSP*VMTLRPQQRK'R'S PKRR*SSQSSRSQSLGKRRGKRGKRG WDTAGFENEDQKLKFLRLMGGFKNLSP SFSRPASTIARPVHMALGKKAADSLQNL
1617	9668	A	2563	198	531	RNPNPLSLLALCLVHSHHLCWALPDEG GGQKGERALNSRKIATFLLSQGTQFGQ WDTAGFENEDQKLKFLRLMGGFKNLSP SFSRPASTIARPVHMALGKKAADSLQNL
1618	9669	A	2564	190	510	
1619	9670	A	2565	1	1977	MEVDFKIRKVQGWTITLQEHPVSVLIFIE ETHPENKPTSTAVEEHSIRDTVMVNFIQ CQLDWSKGYLEAUYLTKINSCSHRFLLD GSVTCHDDETGSRSRARDTGTGVRVND ESVEQGLLRRRTMWLICRGRAAMAAVST VTFAGRPRGRGRSPNRNGRWAQDSKWT GSRRSWLSRGGGIEPTGMITKTHFVYL GLPEKKKKRVRVKEPETRYSVSLNNDY FADVSPLRATSPS*DVHQAPEMPLVK KKKKKKKGVSTLCEEHVPEPETLPAARR EKPSLRLQVFGHIEFLURGKRKNKSP AMSHASGVKTSQDPROGEETRVGKKA SKKHKEKKGPGPHSILPVQDPWFCEA REARDVGDTCSVGKKEEQAAIGQKRK RKSPREHNGKVKKKKKIHQEGDALPGH SKPSRSMESSPGRKGSKKKPVKEAPEYIP ISDDPKASAKKKMSKKKVKPQVIEEPA LKRKKKKRKRKESGVAGDPWKEVVFPS MDFAVGELERTDTDLEVVLKGNMDE AHIDQVRRKALQEEDRESGKTEASETR KWTGTQFGQWDTAGFENEDQKLKFLRL MGGFKNLSPFSRSPASTIARPVNMALGKK AADSLSQNLQRDYDRAMSWKYSRGAG LGFSTAPNKIFYIDRNASKVLED
1620	9671	A	2566	1781	2148	VRFRAAAATLPPGAAPSG/PAPG/PGP QTRIPGPWPPLCPIMSGSLGP*TRILLV PPAQPQGPAGSPGPVQAGRGLAAPPQPLS PSRGPCAGSSWELRLEGLSDWGTCVPVC PCHYIHPKNN
1621	9672	A	2567	1	345	
1622	9673	A	2568	1	582	SGRALHASWAAAGGVGAYSGRILRSDALE GESFAISFSASSADAEFDAVVGYLEDIM DDEFQOLLQRNFMKDQYLYLEFDETEENKLJ YTPMFNEYIISLVEKYIEEQLLQRUPFENM AAFTTTLQOHJHRDEVAWVTFGNAGST PHKIFLG*RKCFDLYRAEKESRGLADLS SGLVVVTSLCKSSLIJAPASQNNLRE
1623	9674	A	2569	2	705	GSVGAATVRPQPNALRCRJLSRAGRSPV LVEFGVGIKQPPCPSSKKAKTCTTKKRPQR ATSNIVFAMF/DQSQJQOGVQRQGPVNMDQ VNRDGFHSOK/EKVLIHDMLASLGLKPNH* WHYLDIAIMMNEGPKGPFKFHQCSLTMTF WLRLKLNIGITRSPEDCHCPETACFCAFDT'KK ATGTHFRKDYLRRSC*PTHGGRFPDVER EVDELYRGGTLLDQKKGNFQITFEPHTA SWKHGSSQPKMT
1624	9675	A	257	238	512	HMVYVPLNLTSKYMKRTRLIELKGEDSNTI LVGDFNTT'LSTMGRTR*DISKETEDLHN TVDPMDLTD/SAELSTQQQQNTLSSQAH GHSRTE

1625	9676	A	2570	1006	1022	TRANSFLFFIYIYLFIRMGSCSVAQGWKCS GTILGHCSCLRLPGISSLNSPTSAHVAG D/SHGMCRHARLJFAFLVEMGVFHPWP GLGLELLTLRVIHPTLGLPKCWGL*AGG SAKIGRRAQIG
1626	9677	A	2571	668	863	IFCFPSDLKYSLASCENLVCFLFCFAF LV**NYFCL*TVNLJFSVRVTELCPFFI VLIIIT
1627	9678	A	2573	258	579	FKQICLFLFFFEMESCSVTRLECSGTIS AHCNLHLPGSDDSPASASPVGTGTC HAQJFLYFYYMTGFRHVAVQVGVELLGA *AHLWPWLKVGLQAPAPDL
1628	9679	A	2574	157	371	
1629	9680	A	2575	1	1431	MHKAGLLGLCARAWNSVRMMASSGMR RDPPLANKVALVTASTDGIGFAJARRIAQ DGAHVVVSSRKQQNVNDQAVATLQGEGL SVTGTCHVKGKAEDRERLVAATVKLHG GIDLIVSNAAVNPFFGSMIDVTEEVWDK TLDINVKAPALMTKAVVPEMEKRGGGS VVIVSSIAAFSPSPGSPSPYVNSKALLGLN NTLAIELAPRNIRVNCLAPGLIKTSFSRM LGEPEDCAGIVSFLCSEDASYTGETVWN LSWMFTGGSVCRASAWSKEGGTGTIP RESPRQREPGETSSTDQENKVWNGLPA NPQRPAAEGPVVRKTKNQKGIASTSAKD SINRTGKDIIHTKTPSIGHQHORPKVVDKT TKMERNQSCKAETSRNNONVSSLPKVEYKS SPAREQNWMENKFDDLTDVFSRVSITN YTQLKHEVHLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTQELHEGYS FNS
1630	9681	A	2576	201	398	
1631	9682	A	2577	195	434	
1632	9683	A	2578	150	284	
1633	9684	A	2579	1	625	MHKARLRLGHICARAGKSVRLASSGMTRR DPLTNKVALVTASTDWIGFAVQRLAQ DGAHVVVSSRKQQNVNDQAVATLQGEG LSMTGTCHVKGKMDWERLVAUTGFSPY NVSKTALLGLAQTLPIELAPRNIRVNCL APGLIKTSFSRMLWMDEKEESMKEVTL RICKV*ASPEDCAGIVSFLCSEDASLHSI GKTVVVDQG(TPSRL
1634	9685	A	258	167	408	DRRITRSGVRDOPGQHGETPSLLKIEKL AGHG/GQAPVCGGRSYLRRRLRQENRLNP GGRGCSEPRRLRHTCPA*TVTRDSVS
1635	9686	A	2580	84	1413	ARKSVRMASSRMTRDPLTNKVALETA STDGIGFAIARRLAQDRAHVFSVRSKQQ NVDQAVATLQCEGLSVTGTCHVKGKA EDRGAAWWWPAVKLHGGDIDLIVSNAAV NPFFGSIMDVTEEV/WDWTLDINVKGPKP P*MTKAVVPEMEKRGGGSVIVSSIAAF SPFSPFSPYVNSKTAALLGLTKTLAIVKLAP RNIRVNCLAPGLIKTSFSRMLWMDEKE EESMKETLIRIIRRLEPEDCAGIVSFLCSE DASYTGETVWNISVMTGGGVCRAS WKEGGTGTPTPRSPRQREPGENQARS SPRMALRPEPPESASTSWMGPEVGNR ERPCPKPARKVGASPRALRRLGSATRMLS RAALRAGVGARAPRPGGGRGAHATATV WSGLASAALTARALLKRSLACAAAPQ RCGWRRLLCSSLGIRGSGWPCCPWSSI
1636	9687	A	2581	1	560	MVYRQNQLPSPSCAPEMGRGDLRHLH AQPPPRRAQSPPPPLSA/PEEP/PPRAQQ SPPPLLTHPRRRHPPQSFPPAPSALSQR PGLYSAVTFSGSLSGPTSTC1PSPASSPS AHGLGHIHTDAGVCSLEAQEEAKAPGG RGPSCSAHLGALGPTCTSGVAGDSPVVG SQERALDPRRQQLQH

1637	9688	A	2582	775	1408	TIPVAYWADPLPKHGHCSPHPGSD/D GTRTTGTA/PPCLGFQGDPPFVHPAPAPP DW/*FPNMQGQPGPPPPTWRAQQLQLLK SSVNMRRGHRWRNVPSPGPHLPEQISLSEL GHSHKPLFLRQNPNPTVPWDVMLPFPILL NLLYGMWNWVNSLDLWGCHRNEEWRP TNHILLAPWRHGRQLKGAGARGRQLPQ LLLPALLLILVGYEMSF
1638	9689	A	2583	3	560	GVPPKSASKFLCTRNGKGRWAQSPFPST AUPPRAQOSPPPLSAQK/KPPPRQAQOS PPPPLTPHRRHPQSFPAPSAPSLSRQRP GLYSAVTFSGLSGLPRTSTCTPSASSPSA HGLGHHHTDAQVCSLEAQEEAKAPGGR GPSCSAHGLGPTCTSGVAGDSGPVVGS GERALDPRRQQLQH
1639	9690	A	2584	189	608	AFLTFNKLHRTDTCRGNKPHPPPGSK VRKRTWGFAPPGPSPWASLPHLPPTA GRQQGRG/EGGFPRGGPGKGSQAQPSGGT RAWRKPMGGLTEDGPYGGPKGLWP*T TNG*K/PGARFWPPLPLGCPLP/RHPVL GP
1640	9691	A	2585	2	847	LKMAAAEFPHQKQEPFLGSDSEGVNCL YDEAIMAQDRIQQEIAVQNPLVSRLE LSVLYKEYAEDDNIVYQOKIKDLHKKYSY IRKTRADGNCFYSGFLRPLGRHCWDDDS KELQRFAVSVWPRARVDLGCSCW/GFT *ISQF*GIFHNFKHGT*LSRWRKQTSVAD LLASFNDOSTSVDLVVYLRLI/TSGYLQ RESKFFEHFIEGGRTVKEFCQQEVEPMW KESDHIIHIMALAQLNGAIQGEDMDRG EGGTTFNHFPEGSEPKGYLLYRPGHYDI LYK
1641	9692	A	2586	468	1191	DVSRVGCLPPSРАMGTWLTALLRRGSAV SALASGLVEEPMLGPFFHPTPRFKAVSA KSKEDLVSOQGFTEFTEIDFHNTFMDLIEQ VEKQTSVADLLASFNDQSTSVDLVGYL LLTSGLL*GPRASSSTSSKGGRDCPKF CQQELEPM*KESDHIIHHCAGGPASAC PSRVGHGTAEEGNHQSAAHLSLASEP KVYLLYRPGHYDILYKIGLGSPLLPCCP PLGARHVTEFVFLW
1642	9693	A	2587	1	326	H5VNRKLRNARNARRKAAPRIE/CVRGLG FRVAVGGLGRDGP RDGSAMSLFAQGSSHI RHAWDHAKSVRQNLAEMLGAVDPRNRA VPLRKRVLTWQGLGPCLLYSSPAILT
1643	9694	A	2588	879	1528	AAGAVVSAMPKAKGKTR*QKFGYSTL RKRMSRNARNARRKA/ARAGLECSHIRHAW DHAKSVRQNL*MGLAVDPRNRA/VPSR KRKVKAMEWDIEEAE*KNLYRKPVLYN DLEAEPSLPEKKGNTL/SLRDLHLTMYRY MVENHGEDDYKAIARDIEKNYYQDTPK QISELRSNVYKRFYPAEWQDFLDSLQK RKMEVKVFGLH:HCPSAEASPGPSEAG
1644	9695	A	2589	1	310	
1645	9696	A	259	660	1200	LTVGKKNRKQQQHOPKSPHKGPHLKQG QPSKVQIEDKFLGR*GKEKNPFTQKG QSGFVYSKLHNTSYRQGHSPGWRLRW MN*QK*ASEGG**QTLS*RSTL*PNILER IPELKDFWFSKIRRQK*KRKKEEENLQ*V WGYI*PRLQITGIPERRVEISMHWRAC SFSSVKFVIP
1646	9697	A	2590	1	716	SALQRLEKKPKPRPPERSPRPRWVPEPQL EVGGACASLAQSPSEKLDPLCLKPLS*S* IIRRRTPTFAMLFLRSLEHSSPPEEASPHOR ASEGEHHHKSKRPNPCAYTPPSLKA/AVQR /VAESHLQSYSSAILNENQGFRGREDELGE FWELGYPREREDEEEEDDEEEEEEEDSQ AEVLKVIROQSAGOKTTCGOGLEGWPWERP PPLDESERDGGSEDQVEDPALSEPGEEQ

					RSPSEPOT
1647	9698	A	2591	39	370 RGWSLVQTNPFRFKNVPGPPTPQVIAEC EESQCGGLGTLGGL*LSPGP*TDSRGPP MMPSEAQGGAAASKGPLGPPQAAQIHG GTPLRMGEALEGQAGQTAGPRVQDGI,
1648	9699	A	2592	229	358
1649	9700	A	2593	257	386
1650	9701	A	2594	217	398 KAWNLLRKSEPKSCGS*GGLSTSRL VECSPLGLGYCG**LCHLQEPHYGSLH RMSS
1651	9702	A	2595	1	3386
1652	9703	A	2596	442	2093 CGFLQMGTVINHNIPGPEGYWHFHFFNF KALLARAAVGAARGIIHRCGLTKRPRDA RRRRVAGAQGRPEAISLPGDRAAGARAT RTKPGPAPKMPAIAVLAAAAAAWCFL QVESRHLDALAGGAAGPNHGUNFLDNDQ WLSTVSYQYDRDKYWNRFDRDEVEDYF RNWNPNKPFQDQALDPSKDPCLVKCSCP HKVYCCTQDYQTALCVSRKRHLLPRQKE WGTVAQKHWGGLD*ILVKCKPCPVA QSAMVCGSRWATPNIPSCKALEFHAC TGQKSFATLDCDGUPCPCCSQSLEPPKHKG RKQVPCDTKELRNLAISRLKDWFgalHE DANRVIKPTSSNTAQGRFDTSILPICKDSL GWMFNKLDMNYDLLLLDPSEINAQYLDK YEPCKPLFNSCDSFKDQPKPFLNNEWCLL PSQNPGGLP/CAQNEMMNRIOQLSKGKSL LGAJPRCNEEGYYKATQCHGSGTQCW CVDKYGNELAGSRKQGAVSCEEQETS GDFGSGGSVVLDDLEYEREELGPKDKEG KLVRHTRAVTEDDEDDDEKEDEVGYI W
1653	9704	A	2597	1	844 LHQQAAVAWLPTSLPSQEHCSTEW APQAASGVHIGICFA/rPFASTSTVTEVS GSPCYLPAPWVYGFLL*TERPLAWWCL GKYWLQELLGCHPVPLAML*DCLALLK SSLVPMGSPTHCKAIVTEEPLHLPPEPAAA AAHTSSPSSCRCKGCLGWVWPWPGSAP GPLGLPSFDPWTVSHQSGSPSPAAGPTITS SS*RPSAPSOMQGLADSQGHLCRHSRK GLRSFLSHTHISTCPHLLQTGMPRSPSL ISIDADLSSPPRIRHRLRGQGHFSGLAKGQ R
1654	9705	A	26	238	446 GFVVSLSRS*GOWERSSSIHA/VTN*ASS SSSSSSSS/SRVRVYPRFIEYLHKDIQSTG QKSPDAWVAGG
1655	9706	A	260	1	680 EQCRSPARARLQOQPDPASTEAEERRTPY GSIGAPAGEGGKVPGLVYIPLLWPNQD ALSCLPSEAYSLSRQHGLPLAVNTMSAG GGRAFAWQVFPMPMTCRIVYGTVAHQD GHLVLVGGCGRAGLPLDTAETLDMA TWWVALPLPTARAGAAA GGDEVQSPVAAVEAFLMDEGRWERR ATLPQAAAMGVATVERDMVY/VSSGG P*HGPGPFGT
1656	9707	A	2602	144	520 IGKEEIKLLFFPDNLMEYTVNF*MYKPLE LIS*FSKVIETYQVNTEK/SNCIVT*QLOIE NEIAKTI*FMIASKSIKYLEISLTKCNK RDILCICIGRLSIIKVLVLPKLMCGGEKF NPNTGFW

1657	9708A	2603	105	440	RSTPDPVCLGIRSSGCRTADFREP*MLLS DRSSGSFVSEEPYAV*SVSLPLLGECLPV RLRLDGHSW*HSDSS*VFKMAADFPA GFLRLGRSGDQRAEHRRCLASQRCC
1658	9709A	2604	1	1047	
1659	9710A	2605	1	690	
1660	9711A	2606	210	424	
1661	9712A	2607	651	835	PRWSRFPDLVICPPRPPKVGLQ*AIVC ASISITKMWLRNAGLTSMMWPRRSARV LSVS
1662	9713A	2608	198	755	
1663	9714A	2609	1	1305	MMRAHAPPVTAVPACTAPRAPPDRHRA GIAREALGRTRGSFRDCLGTRVALQA REKAQAAAAWQGEAGCSAHWVVRHTRGA APEGRPVPRAAQAVLVTGCTVFRRTWIQR DAQIQRQERWAKGFSGPWGFRLGLAT QPAVRA5GRRRRLERQDILEVFRCLAA SWNGGFGAVKPPVEADARSLGLGSQDSF CLVSVSLTKTAKKGLELKQNLJEELRK VDTYKYLFIISVANMRNSKLKDINRAW KHSRMFFGKNCVMMVALGRSP*SDYEYK DLNHQVSKRLRGEVGLLFTNRTKEEVN EWFTKYTEMDYARAGNKEGFIC*AWD PGPYLEQVFPHSMEPQLRQLGLPTALKRG VVTLLSDNVEVCKEGDVAADPRARASRS* KLFGVMDWLNFKVITIPNYMWDSQSQRF QOQIKTDLPESEAFFEESDSEDD
1664	9715A	261	1	403	RTRGQLNRGVYGPRESSVPSLTLAGAPL AGRLDETSGEETQTLTLCGKMSGPTQPP AEGTEGTAPCGGAPVPPPNMTSNSRRLQQ TKAQVEEVDIIPVNGDNVLGRDHKLRE LDTRS DALQARA*PESSAAS
1665	9716A	2610	319	632	GEPNISGMSLPGWGPSPGSTGMPAPAMPL PAMTPOC/*GGPVGPCAS/CASA/CFR CGL*AGRFC/G/CPGHC*CFYFSNSVFPN VECMGLREPAVLPAFHLLGEEAGRISQQ GRSQLNPA
1666	9717A	2611	156	621	LHVPMELQSHSKDEVSPTYLGMSLPGVA PLGSTGDASPCHAPPRPWTPQCSKGQQP CCAP/WCP/CCP/CPCPWSHGCL*LLCDP CPPALPAAEQQPLCKLASAVSGVVS LGNFATCPWPLMRPASPRWKAGRTA GSLRPIHSTLGNTEFEK
1667	9718A	2612	1	585	
1668	9719A	2613	1	1047	
1669	9720A	2614	1	1674	MRSQGEVRRYLRKQSCRFGLGSREKDM VTPSASSVCLIDEQIPAAQESYDHDPRSK HKFIHTYGSPTFCDHCGSLLYGLHQG MKCDTCDMNVHKQCVINVPSCGMDH TEKRGRILYKAEADEKLHVTGKACSSR SSIVGRHLDEGYTDIKAGFQQLDAFLCISS QPPFGKNAHITSSSSIIITLKHGPRRFYSF ASCSCMSSTVSVTFPKILGGKFIDSVV TCIPGPMDCDWRADMGWGPVRLCIWF S

1670	9721	A	2615	3	2089	RPQLPGGGKRWLGGTMADVFPGNSTA SQDVANRFAKGALRQKVNIEVKDHF IARFPKQPTFCSHCTDFIWFGFKQGFCQO VCFCVVKHCRCHEFTVFCSPCGGCGDPTL DDPFRRQATRFKUHTVYGSPTFCDH/CVGS LLYGLIHQGMKCDTCDMNVHKQCVLN VPSLCGMVHTEKRGRIYLNKADEVADKL HVTVRDAKNLIPMDPQNGLSDPYVKLKL DPK\NESKQKTTIRSTLNPQWNESTF KLKPSDKDRLRSVEIWWDWDRITRNDFM GSLSGFGVSELMKMPASGWYKLLNQE EYVNVPipeGDEEGNNMELRQKFEKAKLG PAGNKVISPSEDRKQPSNNLDRVKLTD NFLMVLGKGSFVKVMLADRKGTTELYA IKLKKDVVIQDDVECTMVEKRVLA DKPPLTQLHSCFQTVDRLYFVMEVYNG GDLMYHIIQGVGKPFKEPQAVYFVAAEISIG LFLFHKGHIIYRDLKLDTVMLDSEOHHK IAUDFGDVQGNT*WDGSHPGTFCGTPD YIAPEIAYQPYGKSVWDWAYGVLLYE MLAGOPPFDEDEDELFSQMSIEMHNVSY KSLSKAEAVSICKGLMTKHPAKRGMCGPE GERDVRREHAFFRRIDWEKLENREIOPPFK PKVCGKGAAENFDKFFTRGQPVLT PPDQL VIANIDQSDFEGFSYVNPQFVHPILQSAV
1671	9722	A	2616	1	1136	MTQISNQKQPFAMQHRRFFSILLHWTLQIV YPAFLGLCERGRNNGRCDQPVPEGSVLSL LVWVVPGLAFPEVAPGTCGTSTYVPA LHGPEVESKLGLDPGSMTGTQPTRTPAQ PAAAEPPALTGPGRVHQEQAVLACGFLG IVHLGAASALCRHGKKLVKDVKAFAGA SAGSLVASVLLTAPEKIEECNQFTYKFAE EIRRSQFGAVTPGYDFMARLRSQMSILP PSAHELAQNRLIHSITNAKTRENHLV FSSREDLIKVLLASSFPVYIAGLKLVEYK GQKWDGGLTNALPILPVGRVTITSPFS GRLDISPDQKGQLRSVCLISAKQDIMLSS ANLVRLNQALFPPSKRKMESLYQCGFD DTVKFLLKENWFE
1672	9723	A	2617	118	1018	VTAPRASRLKGKLVQHGSPVGLHCATA RMKHINLNSFAACGFLQYHILGAASALCR HGGKLVKDVKAFAGASAQSLVASVLLT APEKKELEECNQFTYKFS\EEIRROSFGA VTPGYDFMARLRSQMSULPSAHELA\Q QNRLIHSINTNAKTRENHLVSHIFSSRED PQLRSSLSPASFPVYIART\SLVEYKIGQ KWDGGLTNALPHPCPVGRVTITSPFS RJLDISPDQKGQLRSVCLISAKQDIMLSS ANLVRLNQALFPPSKRKMESLYQCGFD DTVKFLLKENWFE
1673	9724	A	2618	60	388	GLDSFTAETTRRHTNTEPHSQSQEPSNG EPQKEEPAAECSRDPPTPQEQTEQDQTAEI PVRDMEGDLQELASVXKRG\LDLGS KVKIIIPKEEHCKMPEAGEEQPQV
1674	9725	A	2619	1	4123	AIQFSVYIWPVGICISPDRERKDRRGKD GRHTRTRWRQGE\KGEVGRERRRGRER DRQRDRDRRIYSPD
1675	9726	A	262	72	276	AIQFSVYIWPVGICISPDRERKDRRGKD GRHTRTRWRQGE\KGEVGRERRRGRER DRQRDRDRRIYSPD
1676	9727	A	2620	71	547	KQIPSLPISRPSVLAVMVTMILKVGAPP MLF1QRSSVNNPSCSSESRTVYFWPPSV SPFMTKLDQSLPRTPTPSAGVMLRKVF PTSEKPTCFSSNA\KELP\GWOESGCSR QCPLSSRETCSRASCINPESANARGEAVCV LGARVVFLFTSETGNS
1677	9728	A	2621	241	452	ENVMLCIRAKEKNHMILTSYTVKAFIGK LKTFTMYYKNNPKQKTLMSMIRREGNTNP KGRFEKNS\AGNIILNGIGLNAF\PIKSEKK VEYLLLFFQFSIILEI\NAIK\EK\IKGRFE KNSEVTL

1678	9729	A	2622	1014	1432	SARLSLPKCWDYRREPPCPASFLYLNKII LYJRAKEKNRMTLSYTVAFKGKJENFF MIYNNKPKQKMLYMMRTEGNTSNPKIGR FEETGNIILNRHKIGGFSIKSEKKVEYLL LLFVSIILEL*VNAIK*EKLKY
1679	9730	A	2623	55	316	NFWGGGAPKAPPKKGFPKIPRGVLNR PPQKEKKLFFPPPVKLGPKDFLKRAPP* TPKKFFPPPKP/YKFLGGGPKSPPPKKR VFSQNPPRGPKSPPKRKKIIFFFFPKJGPP QGFFFKGPPPLIIFCCLCPAFMETTCPCFSK SLSKKFTKT
1680	9731	A	2625	1	963	PTRPPNFHSPHPTSPAAGSAALRCSGRR RSLEVATSLPHSPGPRPAAADVCKMSSSEE VSWISWFPCGLRGNEFCEVDYHPGT NFNLISDLNKQVPIIYRTSSKP*SLDPEPD EELEDNPNSQSDLIAEQAAEMLLWDLJIA ARYIPLPTRRHRPRCLGKVPSKGDGFYGC FVRYCENPANCPIGLSDIPGEAHGESS YCPQ/CAMDV*HTPSQSQRQPSTRMGA*L RATGFPSHGSFVMVAPIELPGPKRPAQSF VAR/GFLRGGKIHPMAYPAGSFQGRPAT FKPKQFKTDSLIPSPTCPA/FCLFLSFLPT LSGTLYGF
1681	9732	B	2626	44	403	MKALILVGGVGTRRLRPLTLSTPKPLVDF CNKPILLHQVEALAAAGVDHVILAVSYM SQVLEKEMKAQEQLRIGIRISMHSHEEPL GTAGPLALARDLSETADPFFVLNSDVIC EFPPQAM*
1682	9733	A	2627	159	309	IGPSALGSKVFLQKQSLFLRCWLJQA LQLDWPOGWNTAEMGW*AQM
1683	9734	A	2628	545	2302	AAACAPSRTTESVTSSLPLLQECLLGAMK ALILVGGVGTRRLRSA/LTLSTPKPLVDFCN KPILLHQVEALAAAGVDHVILAVSYM VLEKEMKAQEQLRIGIRISMHSHEEPLGT AGPLALARDLSETADPFFVLNSDVICDF PFQAMVQFHRIHNGQEGSLVLTKEVEPSK YGVVVCEADTGRHRFVEKPQVFSVNSKI NAGMYILSPAVLQRQIQLOPTSIEKEVFP MAKEGQLYAMELQGFWMIDGQPKDFLT GMCFLFOSLRQKOPERLCSGPVGIVGNVL VDPSPARIGONCSICGPVNSLQPGVVVEDG VCIIRRCTVLRDARIRSHSWQESCIIGSSG SWKLTTIDQDLMVAQFSTPSLPTLKVGF FLPSAGKEQSVLWVSSLEAEIPDIDHVG RVLQPPPRARECAEVRMENVTVLGEDVI VNDELYLNGASVLPKHSIGESVPEPRJIIH DGGFAEEAVLVVHQVLVDTGSTTGEGM RTALHVPTALPTKLWGPPLADLWAQG WDTAEMGGGSCCLGRCRQVQRQDFQ LGQLIGTDIIRIWGVGVGSVSEVAEDVMP LEYSPQTTLFLRLLTRPSPRF
1684	9735	A	2629	124	1315	RAGRARRWECAACTGQAGCRHRLRAR DTPTSTAGAMKALILVGGVGTRRLRPLTL STPKPLVDFCNKPILLHQVEALAAAGVD HVILAVSYMSQVLEKEMKAQEQLRIGIRISM HSHEEEV/LGTVGPL-LARDLSETADP FVLSNDVICDFPQAMVQFHRRHHQEGGS ILVTKVEEPSKYGVVVCEADTGRHRFV EKPVQFVSNKINAGMYILSPAVLRRQLQ PTSIKEEDLPMGKEGQLYAMELQGFWM DIGQPKDFLTGMCLFLQSLRQKOPERLC SGPGIVGNVLVDPSPARIGONCSIGPNVSL GPVVVVEDGVCIIRRCTVLRDARIRSHSW NLESCIVGWRCRVQWVWMENVTVLGE DVVIVNDELYLNGASVLPHKSIGESVP RJIM
1685	9736	A	263	166	396	PQJFPPPGIPRKRENLSREFGG/PNPWGG* A*FPLLEKFLGKKNLGPBPGGGPTFPFFF NPNLLGGPKGGDQKAGKGP

1686	9737	B	2630	162	276	MGRANANESLNVLIVYHFLFQKGVCQRL QLVQVVLQHLLX*
1687	9738	A	2631	2	292	
1688	9739	A	2632	3	2111	SSCGLGQGHGILGAARVRSLFKEARARA PCIVYIDEIDAAGKRSRSTMPGFSNTEEE QTLNQNLLEVMDFVYAKIEELKLVNRRAE TGVLSLRCSTQK*KS*NWCILITVFAIAIE ELKLMPYVHGVLCSSRRKLSSCSNKEMT QSEKSQA*YRMTPLGMDTIDHVIVLAST NRADILGDALMRPGLRDRHVFIDLPTLQ RKGVALSPRLECSAATTHCGLNQGSS* GARTTMGVRRAG*FLTESRCVAKAGV QAAISAHCHNHLPGEA/RKIFEQHILKSLK LTQSSFTYSQRLAELTPGFSGADIANICN EAALHAAREGHTSVHTLNFYEAVERVL AGPHGFQLWESEGFPLPEEWGQLLCQTLQ NTPGFSPTALRGRDWRCLCLTENLFSC NHILLLCGNRKAFYNSKAGRTWEPEQQA S*KKIHDVLECSGPRADSSCTEWTLTDV WKI*DRK*SLIRTAKKSKILSKKEEQK VVA FHESGHALEGWMLEH/TEAVMKVKSITPR TNAALGFQVMLPKDQHFLTQ/ESSFERR FIALGGRAS/EHFSLINEVTSIGAODLRRK VTPPLAYSMVKVQVGMAPGIGIPISFPEAQEG LMGIGRPPFNQGLQQMMMDHEARLLVVA KAYRHTEKVLQDNLDKLQALANALLEK EVINYEDIEALIGPFFFFGPKKMIAQPRW DAQEEKQDLGEEETEETQQPPLGEEPT WPK
1689	9740	A	2633	2	2416	FAQNMAVLLLLLRLARRRGPGPGRPLW GPGFAWSPGFPARPGRGPYMASRPPGD LAEAGGRALQSLQRLRLLTPTFEGINGLL KQHLVQNPVRLWQLLGGTFYFTSRLK QKNEKEKDSSKGKAPEDEEERRRRRERD DOMYRERLRLTLLVIAVVMSSLNALIST GGSISWNDVFHEMLAKEGVQRVQVVP SDVVEVYLHPGAVVFGPRPLALMYMRQ VANIDKFEELRAEDELNIEADRIPVS YKRTGFFGNALYSVGMTAVGLAILWVY FRLAGMTGREGGFSAFNQLKMARFTIVD GKMGKGVSFKDVAGMHEAKLEVREVF DYLKSPERFLQLGAKVPKGALLGPPGC GKTLAKAVATEAQVPLAMAGPEFVE VIOGLGAARVRSLFKEARARAPCIVYIDE IDAVGKRSSTMSGSNTSEEQTLNQLL VEMDGMGTTDHVIVLASTNRADILDA LMPRGRDLRDRHVIFDPLTLQERREIEFEQH KSLKLQSSFTYSQRLAELTPRSVADIA NINCNEAALHAAREGHTSVHTLNFYAV ERVLAGTAKKSULSKKEEQK VVAFHES GHPLVGWMLHETEAVMKVKSITPRTNAA LGFAQMLPDRDQHFLTFKEQLFERMCMAL GGRASEALSFNEVTSIGAODLDRKVTRIA YSMVKQFGMAPGIGIPISFPEAQEGLMGI GRPFPSOGLQQMMMDHEARLLVAKAYR HTEKVLDQDNLDKLQALANALLEKEVIN Y/EDIEALIGPFFFFGPKKMIAQPRW/VS DAQEEKQDLGEEETEETQQPPLGEEPT WPK
1690	9741	A	2636	350	1256	LCFLPLPARKMATNLAHEKNLVDKFK YDIAERRFYEQMNGPVAGC/ASRQENG ATVILRDIARARENHKSAGSSGPAGASS GTSGDHGELVVRIASLVEQNSLRGVV QELQQAISSELEARLNLVLEKTVWFGHRAT GPOVQHVSPPMRQVVEPPSPRSPPTPAEG/ DARDDDJALFGSDNVEEDKGCGTSLRE E/GRFRFEPGEKRPKPKRLV\AQLSFLLG* NPW/DR/KDMAQLEACVRSIQ/LGTGRS WGASKLGPAPVATGRRKLQJQCVVVEDDK

					VGTDLLEEEITKFEHHVQSVDIAAFNKI
1691	9742 A	2637	1	304	GKTFDTFCPLGPALVTKDSVADPHTLKI CCRVNGKVVQSGNTNQMVFKTEDLIAW VSQDVLTLTGTGPGVGVFRKPPVFLKGD EVQCEIEELGVIIINKV
1692	9743 A	2638	1	927	
1693	9744 A	2639	3	847	PSGSDFAAAVVPRLLDAVTGASAQAPAA LDLPPREP*LSAGGPVAAAAAARALAAQ LPVLPRSEVTFLAPVTWPDKVVCGMN YVDHCKEONQVVPKEPIIFSKFASSIVGP YDEVVLPPSQEVWDEVELAVVIWKRK ASTSR*SGKGLPVQSAEAPAPASPPSD LTHQHTPVAVPDTRKQSASLLPDTAFFF THLWLALATNMG*QLRDPD*VLVSPMI *PPVWPNPPLP*ATDAMAHIVAGFTVAH DVSARDWQMRNRNGKQWLL*KTFDTFCP LGPA
1694	9745 A	264	3	413	SSYRWPSPFIILKTCRGPMAPSLSFPGSFLS GLSVPLPLHHPCCPT*LKAAYPNCOLW FLASVAPDTAPPECPSFCFLLQRAQA/PPF LLDLFPYDC*GLCT*PHQPRGNPLTPRQ GLWLGKTHCMGTKAGPQIPR
1695	9746 A	2640	2	562	ITPRFHLCISDPHNLKICCRVNQEVVQSS NTNQMVFKTEDLIAWVQS*TRAVLSAP LHLPHMWRLT*ALHLWLWPLSQPLVSL GPFAILQFVTFYGDVILITGTGPGVGVF RKPPVFPQGRFSEKQREQGPPKPLAGLPS DLRSTGLCMVC*RKGLTLSWPALLQKG DEVQCEIEELGVIIINKV
1696	9747 A	2641	867	1476	LVPVLRPLPLTSRASPNSAQEDRLPPP RQEVNWELEGAGVIGKKGPKIATDA MAAHVGGQFTVAHDVSARDWQMRNRNGK QWLLGKTFDTFCPLGPALCDQVTGVA PHNLKICCRVNQEVVQSS*TRAVLSAP RQRT*ALGLGPLSVTLLPPGDVIPNLGPPH LHPGVGVFRKPPVFL\KKGDEVQCEIEEL GVINNKV
1697	9748 A	265	646	1333	EPGMWQSPPSIGCPHRGTTQASCASPPS TGLS*IPAFPGWRPAWHLHPLLTSPTCT* L*SLGVFPVPPPQWPSTPSQDLDNDIFPV PFSYRWPSPFILKTCRGPMAPSLSFPGSFL SGLSVPLPLHHPCCPT*LKAAYPNCOLW PSSAVAPDTAPPECPLLLCFCRGPGSPILL TSPICLLRTLLQLSSPASGEHYPQGRAV GWAEPKPSAWSTRSLALGFPMMNNEN
1698	9749 A	2651	28	352	VRVWVGNAAGCRCLCRADGVASGVGCA WDGDRMCLPESFIRAPVLSVSIAGPQSS QGSSGRSATPGEGAQGINRRTLSPALPSP PMAPPPSYLVGTSPAPHSDDGCW
1699	9750 A	2652	1198	1889	LKLPIFRLDKVQCGWVELENRLTKMILS TSVLSCFSSRNMSEVSCNKRYDLEW EYFMMAVAFSLAQRSKDPPYSQVGACIVNS ENKIVGIGYNGKPGVNHNSLFP*RRTPK NIKLDITKPYVCHAEI <sup>NA</sup> U <sup>LN</sup> KKFRPDV KRPEVCMFALVPPGK*NGGLSLII/LQAGI KRKLIFHVNLINYPG*LTGATAVARLLF*YG PGVTFRKFIPKCSKIVIDFDSINSRPSRKL Q

1700	9751	A	2655	1099	1712	CALGEGNNSGHRAFSKDRARLPGWWSG RAKDELGKPKPLGPs**RADRR*QOSAC DSSPPSGPGP/TGDGARGR*AAAPGGRRA RRRLGPSEDRSCQMCITGEEHHGRLW GLSGVGPAKPESAPSSLLTICPREETPGRGR PPAPQFQSLARSHGIRGAGDKPTEKSLL PQQRHRRGASSVGRGPLGFPPLEEAPL YPWPNNLQ
1701	9752	A	2656	1	900	
1702	9753	A	2657	465	1269	TSSSCSCHPPNACCRGTSSVLSQKAGQ APHLPGPTGKPLRSSGSILRAVRAPGPGIG GQAPWSDPVLQAFPRPQAPGRGWRG AGRPQPGRDAAPRMLLPFQPRYRTLQPO RLLMPPKKNIRAIYEVLLFK <sup>E</sup> GVMPKKD VPPKHPPELADWKNAPNLRVMKPMQVOSQ GRGGYVKGQFAWWRHFYWYLT <sup>K</sup> GSK CQLHTEAARLQGP/DIPT*RTAL*PATG HLSMRARSLEVQRPTAAAPSGPSWLSLHQ KGMTWTGKNEDLHFRRCR
1703	9754	A	2658	1	433	
1704	9755	B	2659	140	480	MVFELYKMCMDVMAAYFGKISEENIKN NFVLIYELLDEILDFGYPQNSETGALKTFI TQQGKKSQHQTKEEQSQTISQVTGQIGW RREGIKYRRNELFLDVLEKVNLMLSPQ S*
1705	9756	A	266	268	926	ASCTPPFTLPVGRGLGYNPDSPGTSNAH WAGDNEMSLVGLGPVTPKPYHGLPQG WGSWWVRGLSRTPAVTLSQGLCSCVLE TCWGPGEAWFLSPQSVMCDLESPRSPA DPQDGSGLVYGLASSWNTNQPTWNTSR IGSACQA/RSEFNKSHLFFILEGET*GPQK GGVPPKPHYKAPMQSPGILWTQPRAP PTGAIYFFLOMGGPPWRSFLFGVG
1706	9757	A	2660	100	1674	SAAMIGGLFIYHNKGEVILSRVYRDDIGR NAVDARVNVIHARQQVRSPTVNIARTS FFHVKRANIWLAATVTKQNVNAAMVFEF LYKMSDMEAAYFGKISEENIKNNFVVFH YMELEDEILEFGYPOEFRD/SGALKTFITP AGHSRSSGFRQKEGSSQFTSQTGQIGW RREGIKYRRNELFLDVLESVNLMLSPQ QVLSAHVSGDVWVMKNYLSGMPECKF GMNDKIVIEKQGKGTADETKQEPGSNQL LIDDCFT/HTQCVRLS5KFDSERSISFIPPD GEFLMRYRTKTDIILPFRVPLVREVFGR TKELEVVKVIKSNFKPSLILQKIEVRIOPP LNTSGVQVICMKGAKAKYKAGENSFWV KIKRMMAGMKESQIQRGFELLNTDKK KWGC/RPPEPMNFEVFPVAPSLKGVYLV KVLNPKLNSDHDVKWWVJGRSGIY ENSAACKATRQLAQLOPPOPLQVQVPLL POTTHQVSPSPALLSPSPHLQARSLRSGP KQHVKVGPVEPALGLPGQGEF
1707	9758	A	2661	1	356	
1708	9759	A	2662	303	774	DPKSGRWRKGRNGNGELADLQAEHSIR ARAAGRGLPGALARVQPEAAAEGVAR CGRGAVAENSIDFVSRLECAHSIRKLQAH VLLIKAVHGVFDPRENYSDKESLSFMIDT MKSTLKERFQFVEVPGNHCVHMSEPH VASISSLQCTHTLPAQ
1709	9760	A	2663	572	902	GALARAPQQQRWVSCPR/GVP/GAL*RE FTMFLSLQAEENSIDFISRELCAHSIRKLQAH HVLLIK*VAQAGAQRSQLTGYGSLTWA CPLPTTVKSHGTAPPHPLLHEPSPSTDLLP SMTLLPGGLPKKDLES
1710	9761	A	2664	1	398	PNPLSTQMGTSGGKGHQELLEYSPGGGP PPGPRKQFHCSPPPPNPASGSKKQH/SPPPL /SPHSFSKVFKFNQAPPPTPTPKQERKS* LKMLNFNSAPVDPFTAQMAPPGFLFVPSP SPPLHRLPPQAWGQRHSQ

1711	9762	A	2665	119	496	TGAVSFQMPMEETQTDQPMEEEEEVETFA FQAELIAQLMSLINTFYSNKEIFRELISNS SDGEPMGRGTKVILHLKEDQTEYLEERR IKEIVKKHSQFIGYPITLFVEKERDKEVSD DEAEKEDN
1712	9763	A	2666	1	235	
1713	9764	A	2667	1	2424	RKVREASGKSAARWAGPSLYKAGAGV ARQLLQRPGVAVPLVLCGHAKMPET QTQDOPMEEEEEVETFAFQAEIAQWISLII NTF*LETKRSFLRELIENSSDALDKIPVLN A*HDPHSIRPLGKEAHTLLPDQTKIRTL TIVDTWNL*PKADLUNNLTGIA/RSLGTT KAFMEALQAGADISMIGQFGVGFYPAI YLVAEKVTVTKHNDDEQYAWESSAGG ISFIVRKTDTG*TYGSVGTKVILHLKEDQ EYLEERRIKEIVKKHSQFIGYPITLFVEKE RWDKEVTTDADPKEDKEEKKIEKEEKES EDKPEIJDVGSDDEEEKKGDGKKKKKK KEKYIDQEEELNTPKAIPWTRNPDDLTNE EYGEFYKSILNDWEDHLLAVI/HFFQFEG OLEFRALLFPPTVLPFDLWFENKKKKN NIKLVYRRVFFMDNCEELIPEYLNFRG VGDSEDLPLNISREMLQKPKF*KFSRK NFGPKKCLELFTELAEDKENYKKFYEQ FSKNIKLGHHEDSNQRNKKLSELRLYYTS ASGDEMVSLSKDFCPRMKENQKHYYT GETKDQVANSASFVERLRKHGLEVIYMIC PIDEYCVPLQKEFEGKTLVSVTKEGLE LPEDEEKKKQEEKKTKFENLCKIMDI KEKKVEKVVVSNRLVTSPPCRVTSYTG WTANMERIMKAQALRDNSTMGYMAAK VKHLEINPDHSIIEPLGPKAeadKNDKSV EGILVIWLKETAPPSAFLS&ENPRTHAT RUYRMIKPGLGDEDPTADYQWLLV TEENPPLEGGDDTSRMEEDV
1714	9765	A	2668	524	797	AVSPSEGEQERGEKRAAGCGSRL*SQHF VRPRWADHLLRSGV*DQPQGHGETPVST KNTKISWAWW*AVSIPATREAEGEWL EPRRRRLQ
1715	9766	C	2669	102	323	
1716	9767	A	267	599	1420	SHLPSLSLLPRIPPEVIVGSERGPVVPPCP WGSWCGLSRTPAVTLSQGLCSVCLETIC WGPGEAGAWFLSPQSVMCDLESPRSPADP /RGWKFVYGLASSGQMCNHLERYRML VLARHSELISPTYSFEGEGETEAQRG*GIPP KPHRSRNSAEPGPYGTGHTWPLHTGTF SSQMRGPSSLLDGGWIKTEGDKEKAPG LMGLKDRDTGTCYGCVCSCPCQQLQA GGVLYLAQPPALRLPNGPRPARAREKK DWHHREETGFLDEATLLKARP
1717	9768	A	2670	146	804	TETRFSDSVAOOQAGPQTGFLGPLLLALPRL TFSPLLSPLPTVGTKCGNPLWAPKPCPALA APSGCRMTWKEQGRKM/GVNC/PRPVAA CMCV*TGKRPPSPMFLPSPRFSSETRRAA RGSSELPWVAGAWSASSSDSPLRSTAP RRSVCTHGLTQPTRHACQKGAGVCVR GPRSEAKGGWGRGRALLLAAATPCPLSCP NLGLPAKVTPEQQLVVRGGGRPAPG
1718	9769	A	2671	1	787	LNSRVEPRVRSRTMETKPVITCLKTLLIIY SFVFWITGAILLAVGVWGLKTGTYISLI AENSTNAPYVLIQTTGTTVVFGLFGCFAT CRGSPWMLKLAYMLFLSFLVFLAELVAGIS GVVLRHEIKDTFLRTYTDAMQTYNGND EARSRAVDHVQRSLSCCGVQDWTNW STSPYPLEHGISSCCMNEYTDCNPQDHLH NLTAATKVUNQKGCGYDLVT*FSWEIN MOWAGSGRLGIRAFSQLIGHAGWACCL SRFHJHGPIQY

1719	9770	A	2672	I	670	YKVLIIFT/SPCS/DQLCS/ALCSCFRPKDTR/ER/LRG/APEGFLSTDLHLA/FPVPLTALI/STIINYLDKTKQREMVYRLEQGLIHRCP/RCQCVVALSICSVEMPDIIKALPVLVVKL/TIISATASMAVPLLEFLSTLARLPHLYR/FAAEQYASVFAISLPYTNPSKFNQVYVCL/AIIHVIAPKLHRLQSPHLMARWASGSAS/SPRWRTSPSLCEAGALPPALALDGIACQ
1720	9771	A	2673	I	154	
1721	9772	A	2674		237	
1722	9773	A	2675	I		410
1723	9774	A	2676	I		414
						6371
						MPDSCGLHPIAAHAAAPSRDARIAGLSAR/GRHRTTIPSKLPRNPSAQCRYRKCGSRR/RRPGARGVRLSPRGGPERGAAREGSGASWSTMKAPTSKDSKLKEKFKLGL/GTPRNPNRSAEGKQTEIIAELRELSMSE/CGLNNRIRMIQOICEAKTJKFEEHAAVE/ALWKAVADLLQPERPLEARHAVLALLK/AIVQQQGERLGVRLRFFKVKDYPNSPNDLHERLEVFKALTDNGRHTYLEDIELADFV
1724	9775	A	2677	I		5405
						MAKPTSCKDSGLKEFKFILLGLGTPRPNP/RSAEKGQTEFIIAELRELSMECGLNNRIRMIQOICEAKTJKFEEHAAVE/ADLLEPTEARHAVLALLKAIQVQGQERLGVRLRFFKVIQD/PYNSPNDLHERLEVFKALTDNGRHTYLEDIELADFV/LEVKALTDNGRHTYLEDIELADFV/MDVGLSSFEFLLVNLVFKFNKLVTLDL/VOQSQRNGFKMICLICVVRTASSV/DIEVS/LARLDDA/GAANNLPAESPLFV
1725	9776	A	2678	I		5469
						GASWSTMKAPTSCKDSGLKEFKFILLGLG/TPRNPNRSAEGKQTEIIAELRELSMEGLNNRIRMIQOICEAKTJKFEEHAAVEA/LWKAVALDQQPERTLEARHAVLALLKAIQVQGQERLGVRLRFFKVIQD/PYNSPNDLHERLEVFKALTDNGRHTYLEDIELADFV/LQWMDVGLSSFEFLLVNLVFKFNKLVTLDL/DEYIARMVQMCILLCVRTASSVDIEVS/LQLDAVV/CYNCLPAESPLFV/TLCRTINV
1726	9777	A	2679	35		239
						SPSSQPPPVIPIH*PVCKQPTCSRSPKRVLNLNVGGEEASY
1727	9778	A	268	1755		2524
						WPVWPGNGSES/VGLPGGRGLVTAPAVFLPPKPAQFGAQHYSRSP/PSRRGQLIRAA/WLTGSPVRPGQEMGLGAGRGGASGRAG*GPAPYRKLSASARAGHGAPESNCSSSSG/SGSTVSSSSWGSGSWGSRQLSQCMEV/EELVH/HFIQGGAG*AGGTLQWALVSNLNGFGVRQGDIVVTI/LIGLHSIEDGAGVQGRSEAMEPRQAG/RTEGWLGGSSETPHPAGTSCFNLRPTVSREAAFAGRRAEGS/SCPLSP/PTSA
1728	9779	A	2680	118		359
						AVCKOPTS/CPLSP/CPGCGQASC*AFRL/LEI/CRAFG*A/ALGPGKSGQNCPRSSPP/PS/CPPLKYQGNCQPLRLLH
1729	9780	A	2681	229		455
						TMQGSLNKPPLSP*/PRAATKIPN/SPS/SPSP/PPQPAQPTTPHSILSTIKAMTPVTIQALFSRI/VRYLCDCRDRSLTQS/
1730	9781	A	2682	I		373

1731	9782	A	2683	72	1031	GCPRLLLRLGRSGLEPGTRKMAAARPSL GRVLPDSSVLFLCDMQEKFRHNIAYFPQ IVSVGSRMLKVARLILLEPVMLTEQVYQ GLGPTVPEAGD*GPSAAWQKTCFSM/CC LPLQOEELDSRPQRLRSVLLCGIEAQACILD PRSYPGALTSLYPQNTIWDLDRGLQ VHVVVVDACSSRSQVDRVALARMRSG AFLSTSEGILKLVGDAVH*QPKENQKL KEPAPDSGGLGLFQGQNSLPPLNNSPNA EDHPVPHGPQWEARFPPLSGFPRVGAIP PGSCRPLVGGGQWCLLPIQQLPEMQM RLLETGWEMG
1732	9783	B	2684	1	792	MGVLPYSYFWDEEAEAQEGICLSQLKQRM PVGRAGHSGHFLADATSRALARRREW GKQEERGVKESSESTNTTSRMKTPKEDV RPGMTAFAPEALGNLVEGRTSIDSILKTV SNFSLSGACCLLSPHFVLLDGTAGRSGDR DEQNAHSVVPQQARAHHHPESHIHL GDEACIAIYIRTRSTWTLAASHAPSRRD PCLAPPGWQMADRPLHRSGAPSVLPHISQ DTDEMNQERYMNASISFPKPPHSTSQQ VLFIQPGEEREI*
1733	9784	C	2685	10	126	
1734	9785	A	2686	2	370	HCIQQILEAVLHCQ/MGVVHDLK/PGE KKNQTLGRAVLLSFT*RRLLQSLGLHQLH SLAPSGTSWISLLILMVSVAGFAGT/PG YLSPEVLRKDPYKG/P/VDLWACGG*RFS GPLGVILYILLV
1735	9786	A	2687	1	1593	
1736	9787	A	2688	3	1607	IPGSTISCSSVKPVLCILHSAARACKWSLG SGAEQQQLSPGPVPSLTCLPSARMATIT CTRFTEEYQLFEELGKGAFGSVVRCCVKV LAGOEYAAKINTKKLISARDHOKLEREA RICKRLLKHPNIVRLIDSISSEEGHHYLIFD LVTGELVEDIVAREVYSEADASHCIOHI LEAVLHCHQMVGVHDLKPNLLASK LKGAAVKKLADFGLAJIEVEGEQQACVGF AGTPGYLSPEVLRKDYPGKPVDLWACG VILYLLVGVPFFWDEQDHRLYQOQIKAG AYDFTSPEDWDTV1PEAKDLINKMLJINPS KRITAAEALKHPWISRSTVASCMMHQRQE ARGPATKKFNARRKULKGAILSTMLAT RNFSGGKSGGNKKSDDGVKESSESANTTI EDEATKVRNQEIIKVTQLEIAISNGDFES YTKMCDFGMTAFAPEALGNLVEGLDFH RFYFENLWYRNSKPVHTTILNPHIHLMG DEACIAIYIRITQYLDAGGIPRTAQSEET RVHHRDGGWQVHFRSGAPSVLPH
1737	9788	C	2689	6	167	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX K*
1738	9789	A	269	3	389	GVSPCPWPGWS*TPDLK*STRLGFPRCWD YRLLEVDPCTGHSLVY*KDPVPLPLPAEG CDYQGKEYALSSCCDKSYLLPDYRTKFL CCHPERGTWKLGTGGCYAPIQSFGIA EQAWLQHGSGAVYLC
1739	9790	A	2690	310	593	LQVISEYLFWRINFFLFLF*TVSLSVQA RVQWRDPGSQLPPLPGKRFLASASRV ARVITGAHHHLAQL/LYF*VETGFHHVG QAGLELLTSGK
1740	9791	A	2691	58	481	LQVISEYLFWRINFFLFLF*TVSLSVQA RVQWRDPGSQLPPLPGKRFLASASRV RVTGAHHHLAQLFCIFK*ROGFHPGWSG WSSNLPDLQANPAASALPKVPGITGTSP HPPWSINFKNKIKIWNQETSILVFFRL
1741	9792	A	2692	1	398	

1742	9793	A	2693	3	267	AMVGGGVGGGLLENANPLIYQRSGER PTVAGEEDEQVPSDIDAREIFDLIRS*AW PLTQPAYWYPGPSSCQGCYRCFLESLT MRN
1743	9794	A	2694	1	942	
1744	9795	A	2695	3	707	AMVGGGVGGGLLENANPLIYQRSGER PTVAGEEDEQVPSDIDAREIFDIRRCWAR AGSGGLRGEQ*YRAAGGAASQQGPV GRF*VGKGAESFLHFPOLIRFLNDP& HSLTEELNVQEQRVQVQSDPESTVAVA FTPTIPHCSMATHLIGLSIKVLLRSI.PQRF KMDVHITPGTHASEHAGKGLVVRVLA RAPPKQSEASPLHRSLWARLEMGNCVSE IARDSSVWVIA
1745	9796	A	2696	2	604	ARSHIRISGGGSAMVGGGVGGGLLENA NPLIQRFGERPVTAGEEDEQVPSDIDA REVFDLIRSHQMTPHEHPLLEELNVVAE QVRVQVQSDPESTVAVGFPKPHSGTCCR HGPPLIGLSIKVLLRSLPSAFSRWDVA HLLGDPPLPQEHAVEQATLQIKEAGWAT ALGRTPHILLEVVNQCLSSPAPGTWAFV PLSLA
1746	9797	A	2697	79	690	KVSKIAIGCLRNYYGVCLAHRLTWAIPEP PKMNPVVEPLSWMLGTWLDPPGAGAT YPTLQPFQYLEEVHISHVQAMLNFSF NSFHPDTRKSMHRECGFHFASPKD*UNK VGLCQAPONTGLGWNVNKEGEVKRARS LCIRJPLP FARISFRQGKPHVEQIT/R.GKFR LNSEGKL*ADGSPMGNRHSPTQHH HDTYQEGEHRKP
1747	9798	A	2698	1	405	
1748	9799	A	2699	1	1437	
1749	9800	A	27	244	309	NPKGQKDREAPLSRSVFVLKIKRAFAL LLHGRF*PSTPAASASPAKSPRGSKAL ASALFYIVQLTK
1750	9801	A	270	555	1181	RGPMPERPKQMTAVHCQGHQRGDSEIRN FRCHGPNSCTRWGSPPHASAFSTCL*N PKYVFWGISFLSFSLRSRLDVAQAR VQWCNLLGLSOLPLPPRF*QFSCIRLSS*D YRCMPPCPA/NYL*F**RQGFT*ARLVLN S*PRDPPVLAQSAGITGVSHQARITFLF FETTFFHSVAHAGVQWHDLSSLPPPFR KRLSCLSLSS
1751	9802	A	2700	78	399	FIHRPSDSGPPAERSPCRGRVCISGKKHS YPSCWYPLPKHTASCPISTSILTPLPLDL RIPLMWKDTEYFKNKGDLHRWAFLLL QLEGEHQDTEMIIVDRLITYC1
1752	9803	A	2701	2	368	VVAGALGCSWLGIGAGFLSGREGACRR ERGQOQALGRTPLPSLPLPSLEKRAGRTA ATKARLDTLCLEPLQLAFPPGDPTYPT SLSFSSLPGPLA/WPPEQQWGEENLSQQP EGV*QELQRDKGSFCPLPKSWPPL*RGG GARLQLARNRGWFWVWKCRGLQKGAG TAADRHTPAFLSPSPFSGKASWENSC QSETGHISVPRAPSAGLSSWQPHLSSLR FLFLPCLGSRQAPGAAVGRGKFVTAARG GLTGVAEG
1753	9804	A	2702	1	588	VRAGELDDQALGRPFILSISNQYGDDEV HTLQTESREALQSWMEALWQLFFDMSK REGGWVEPLGRTGVCCHY*RPLFQDYV EGNVAGERAAWLSLLSALLPGQWKQC CDEIMKIEPTAPRKPPQALAKQGSLYHE MAIEPLDDIAETDILTQREGARLETPPP WLAMFTDQPALPNPCSPASVAPADWT HPL

1754	9805	A	2703	46	1825	AAAGSETGLGSCLEGKCPAEGSGDSSRQ AHPCLPLSLSLLWKSEDTELQRKLDHIEI RLRKGPCKLALLNLLPSEKQALEA/TKSL LVCNSRILSYMGEVLQRKEA/OLLGKT SRRPSSDGGPAERSPCRGRVCISDLRIP MWKDTEYFKNKQDLHR/WAVFULLQL GHEH/QDTEMILDVDRTLTDISFQSNSVLF AEAGP/D/*TCGLELYGACVEEFGALTGG PKRLATKLSSSLGRSSGRVRVRSNSAG GSR/GAI/PFMLPTPEVGVGRYHLLAHTL TLAAVQDGFRTHDILTLASHEENPAWLPL YGSVCCRLAAQPLCMTQPTASGTLRVQ QAGEMQNWAQVHGVLKGTNLFCYRQP EDADTGEPLLTIAVNKVMGQLVETRVR AEGELDQALGRPFILSISNQYGDDEVTHIT LQTESRGSTCRWIMEALWQLFFDMSQ WQKCCDEIMKIEPTAPRKPQQALAKQG SLVYHEM/ALFEPPLDDIAAVTDILTQREG ARLETPPPWLAMFTDQPALPNPCSPASV APAPDWTIPLPWGRPRTFSLDAVDPDHR SPRASLRFAPLPTFSESPRTRGLLQAKGQ PRTWLQSPV
1755	9806	A	2704	1	370	
1756	9807	A	2705	1	363	
1757	9808	A	2706	158	301	IIIMTLAEDLLCSAAQNSRLSAQRTQAGW LLISALMTLGNSL^KVYIP
1758	9809	A	2707	182	395	
1759	9810	A	2708	1	434	SSYIPFSIQIQLFPHTHTFL*HPVSWKNC RK*TRENLK/ITAELEIFQEGIKVLETVT VAEEHHRQLQVACLLPILISFLLDENSLG SATSIMRNLHDFALQNLQMIGPQYSSVF KSLVASSPALKARLEAAIKGNQESVKVK I
1760	9811	A	2709	112	501	
1761	9812	A	271	80	599	SIOEKRSLLGEOSPTFLKELQEGTSWLLM AKLYEAVTFKDVAVIFTTEELGLDPAQ RKLRYDVMLENFRNL/SQWGINHAMEI LSTS*GKEKLWVMGTSSQ*ERNLGGKIQ TEMETVPEAGTHEFSCQKIQWEQIASDL TRSQDTTISNSQLFQEDDNPSPQIKARLST VHTR
1762	9813	A	2710	1298	8400	FPTNTTFLKWCYVRFHYAEPAVPGHCR AGVRREGADWGTTGSADKQRGPFLLDY GKVVLPACQNDVREKQKTLVEQLLSS LNSSPGPTRKLLAKNLAILYSIGDITFSV HEADKNDLIRSKDDPSYPLPTKLAAV VCLGSYKLGRILQNTFTDVTGVNILKA MKSASEOSGYEIMLSLQNQNLNGLAAAAA PCIRDVYKAARSCLTDRSMAVRCAAQK CLELQNEAIFMWSTLDSSVATLCFKSF EGSN
1763	9814	A	2711	2107	2424	TTRYLKKTTTGTQRRKGRGRGNGSFTEN LVPSTGTGSQQLGPFFR*/NHTEECWGP PTADGRAGKGPQOQGPRAGRAQRJYRWDPS DGTTWHHIRPCGSRGTDQPEIK
1764	9815	A	2712	1	368	FRREGRPAGAGAGFADSGGAPSSCCGPT VRPVAAATAEVLHVRGAFQEFPPVCQAG VQWRN/HGSLRPPPPGSSHPPISAS*VET TGMCHHVWLIF**NFFVETGSPYVAQAL ILLMLGIKTL
1765	9816	A	2713	1	278	
1766	9817	A	2714	188	406	

1767	9818	A	2715	123	914	PRAGCGCGSGRVTAACLCACATLVWPPR FQEVLVLSGLVLHARGCTYSQWWSRSHP FCCSRGPLAMAGIIFEDIFDVEGY*PEQ EVWTECSRHLCESESFRMDLILDVNIQIY PVDLGDKFRVLVIASLTYEDGTLDGEGYN PTDDRPSRADQFEYVMYGKVYRIEGDAE TSTEAATRLSAYSVSYGGLAMRLQGDAA NNLHGFEGVGLPRVYLLMKKISSLNLAL NQSPSLPSHSGRGRHGCSSLSGQPLFAHLLRK GWLTVHRWRHL
1768	9819	A	2716	1	2415	
1769	9820	A	2717	2	964	
1770	9821	A	2718	276	482	
1771	9822	A	2719	329	3354	PVRQFIPPKLPIRHCLEAEVGGRCQTCAP PRKWAVPIGLHRSATSQSFCGGGRSWL CSSKLMQAQPPRGIRLRSALCPKFLHTNST SHTWGHEVQLELIG*CLWIPDVNAKQI WGLTKQWINDHICLTFDNGNGMTSDK LHKMLSLFGFSDKVTMNGHVPGLYGNG FKSGSMRRLGKDAWFTKNGESMSVGL SQTYLAEVIAEHVVVPIVAFNKHQRQMIN LAESKASLAAIHEHLSFTEOKLAEALDA
1772	9823	A	2722	1321	1913	VEMRNNQCKNNSNSNSNGLCIVIPSPNNHITS SPTRVLTWMNCLELHKYNV*IWIGKIK *TQENGKTQSEEENKNNIKVNLQELKDVKVA GIKKNLITDLNAPKNITLLEFHNAFTSDNS RK/DKSDERISELEDWVSNIRWTKVN*NE QIHLGGWDIMRPLQITGISEREREVKS NLENVYQDIIIFESPMLNARKANSQIOE
1773	9824	A	2720	1135	1476	HGVSLLPRLECTGH/VISAHCDPRLPGF ERFCSCLSLPSSWDYRHAPTHQAQAKFCI FKWRRGFSHVQAG*HFYFFPSQVLGTN MEDFFLTGLLHGLFQEDSNAPYSFKWG SLR
1774	9825	A	2721	670	1253	ACYALNLFPKHTDIFYFFIYFFCCRDRGP RYTQAGLKFDKF*ILPWPYQSVGIISV SHPPGP*CLLNAINKNYRVRN*LLYIJO YPLMLFGVFLRQGEFAVT/SAAVQWYDHG SMQPOLPGLRWFSHLSSLSGWEHRRTP RLG*FCFSRESFVMLPRLVLSNSWGNSNDT PALASQSVVITGMSHHAPAFPMLE
1775	9826	C	2725	95	310	MREYNLVLGSGGVGKSAITVQFVQGI FVEKYDPTIEDSYRKQVEVDQCQQCMLEI LDTAGTLSPRLTTYR*
1776	9827	A	2726	1	1101	
1777	9828	A	2727	53	772	IPRSGITGSEGDPVYKSMCLTAPSMA RSSFKQITSLREYKLVVLGS*GVGKSA TVQFVHGIFVEKYDPSIEDSYRKQVEVD CQQCMLEIILADTAGTEQFTAMRDLYMKN GQGFALSIFYLQLQSTPNGLYRDLLEGNQ ILRV*GTR/VMFPMILVGNKCDLEDERV VGKEQGQNLLARQWCITALLESSA/RSE IOVNEVLYDPPVRQNRNEY/TPVEKKP*K NSMSTLLGPIVRROL
1778	9829	A	2728	377	615	VPAQCSF*DTASCLLVKRKMRLDAVAH AYNPSTLGGRRGWITRQQEFTSLAM VKPVSTKNKISRVVWHNRNPSYSGG

1779	9830	B	2729		1	1224	MPITVGKAQARRRTDTLLLDITQVLIDQSPRKDTGLAQQTGVIPVSKIVYWRQAQLKGDMDKVASPAFELFVSRVQASSTDGVTLLOPITREDDCDISAPNPVEVRQTAQAEVAGVGLAVKVRPDEVLGQGAPGPKQRVSRVCGEPLTLQRSSGQPLVWRPGSRCPPTSVSSPVPEDEYGRTVMLRDLNDNGISGJSTJENNPELEKQLGPGESENSPYLGPPQVLRLRDPREVDMLLNTQPTTAKEQAVLAAEIFRNQQISYNTNSKGKKGDRCECEIAETPFOIGSEAVPLDNPDWNSSSAEGRRHFLCILEGLERTKAKFLNCSSLMSMVDQKPDENPAAPMERTLREALIEQTSLSPDSVQEQLILKDKFVTQSASNRKLQKQAIGPINSTLKNLLK*
1780	9831	A	273	193	310		
1781	9832	A	2730	877	1536	1NFLFLALSPSCSLAGLPLPKFKQFSCSLLS SWDYNRFYIFW*RWGFTMLARLVSNS*P QCDPHSTSASHSAGITGHSNCAWS*TLNF FSYELFFSFTSALS*KDHCKGHNMGMCQ FT*MHQ*L*EKPP*LLFETRSVVA/QAG VQWRNLGSLSQPPSPGFKRFSCLSLPSSW DYLRTPPRANCPDLSFQFSDGVPSCWPGW SQSLDLVIPCWPWPKVLGLQA	
1782	9833	A	2731	3	643	RLEEDLGRRQSLAPFVGVRVETYFTVVL WITIMGQGGSVTLQGGLLVLAVLCHS GH*PCQC*YNGFLPQATADQKQCPFNCS GFWMRVFTIQLKLGYQVYQNCWKFHEC NFNDRHNP*AOKMLGLTILLCKKG/LRCN FTERLLENGTISLSEKTVLNLGELHFWA AAWEPSIKSNTRECFITKLPRSLRSSVF PLGWPHSKGLDIFOMGWSLGE	
1783	9834	A	2732	11	431	RHLAAAPPAPPAAAALSHLCHRLSSG RPLAHTSRLPRVVKRVRNVALKNLQV CAQEAKFYEVHDLERKAYVQLPFLD KRFEEINAIYEPTEECEWPKDDEEDEISEE LKEKAKIVDEKKIDEEKEDPKGPIPEFW	
1784	9835	C	2733	257	358	MILLVFLXPQHVQFLERXQSEIHLHNLNT ADVL*	
1785	9836	A	2734	2	387		
1786	9837	A	2735	64	467	PAAWLPLILVAARQLTVQMMMNQNPQI LQERLDGLVETPTGYIESLPRVVKRRVN ALKNLQVCAQAEAKFYEVHDLORKY AVLYQPLFDKRFEEINAIYEPTEECEW PDEEDEISEELKEKAKIEDEKKD	
1787	9838	A	2736	1	795		
1788	9839	A	2737	1	982		
1789	9840	A	2738	2	138	SARGAACSSRCRRCCCRPESLPAQLRAA WLPJWADIWSSYNMADIDNKEQSELDQ DLDDVEEVEEEETGEETLKLKARS*JFR MMQNPQIJAALQERLDSLWVEITPT YIESLPRVVKRRVNVALKNLQVCAQKE TQFYEEVHDLERKAYVLYQPLFDKRF IINAIYEPTEECEWPKDDEEDEISEE WEEKGQIJEDEKDEEKEPDG/IFPEFW LTVFKNVDLLSMDVHQHDEPILKHLKD KVFKFSDAQOPMSVLEHFPHFPENEYITNEA VLTKTYMRMSEPDUDSPDFSDGPEIMGC TRVPR*DWWKGKVNLTLIK:KKQKHKG RGTVPYCDLKPVSNDNFNFGPLPESS RSGDLDDEAAILAIDFUEIGHYRERIP RSVNVNTGEIAEDDDDDYDIEEGR*RSG* GRLAPHTSRRYLEFLHGRH	

1790	9841	A	2739	1	435	PRARAERPAPASCSSPTSTRTPDTEIDVC IVERLFFSSSLVAIVSALKAPRKLKVCCHFKK GTEICNYSYNTILAVKLNRQLRILVCLEE SLYIHNIRDMLVVLHHTIRETPPNPAGLCAL SINNDNCYLAYPGS*SGEAGAGQOLLFAN FNQDNTIDTEDVCIVERLFSSSLVAIVSLK APRKLKVCCHFKKGTIECNYSYNTILAV KLNRQLLIVCLEESELYIHNIRDMLVVLHTI RETPPNPAGLCALSIINNDNCYLAYPGS TIGEVQVFDTINL
1791	9842	A	274	831	1102	HGPRPRQVDCLSSGVQDQPQGHGEVQ VLIKUJKLAGHGGGAHL*SQLWRLRHEN HLNLGGRCGSEPRWCHFTPAWITTEQDS V*NNNNNNK
1792	9843	A	2740	3	438	
1793	9844	A	2741	1	1336	MLLRLQRQIKTLRPPGCPHPTTCASAGILS AVPCVSPRQVFVFERRFCLWHSHIVEMPT HVLFFVISA DTEDVCIVERLFSSSLVAIVS LKA PRKLKVCCHFKKGTEICNYSYNTI LA VFKN RQLLIVCLEESELYIHNIRDMLVK HTIRETPPNPAGLCALSIINNDNCYLAYPG SATIGEVQVFDTINLRAANMIPAHDSPLA ALAFDASGTLATASEKGTIVRVSIEPEG QKLF EFRRGV KRCV SICPLA FMSDGMF LSASSNTED/TVHIFKLETVK EKPPPEEPT WTGYFGVLMAMSTS YLPSQVTEMFNQ GRAFATVRLPPCGHKNILLG*PTIOKIPR LLVGAADG YLYM YNLDPOEGVGE CAL MKQHRLDG SLETTNEILDSASHDCPLV VQTYGAAGKAYTDDLGA VGGACLEDE ASALR LDEDSEHPPMIIRTD
1794	9845	A	2742	152	1616	VQDPDPSSRARPPRPGPLAARFAMNLASQ SGEAGAGQQLFANFNQDNTEVKGASRA AGLGRRAV VWSLA VGSKS/GYKFFSLS VDKLEQIYECTD TEDVCIVERLFSSSLVAI VSLKIA PRKLKVCCHFKKGTEICNYSY NTILAVKLNRQLLIVCLEESELYIHNIRD MKV LHTIRETPPNPAGLCALSIINNDNC LYAYPGSATIGEVQVQFDTINLRAANM PAHDSPLA AALAFDASG*LTATASEKGT VIRVSIEPEGOKL FERRGV KRCV SICSL AFSM DGMFLSASSNTEVHIFKLETVK KPEEPTWTGYFGVLMAMSTS YLPSQV TEMFNQGRAFATVRLPPCGHKNICSLATI QKIPRLLVGAADG YLYM YNLDPQEGGE CALMKQHRLDG S LKGKRPNEILDSASH DCPLVTS DITA QLAKGKGTYV PSSPTEC TRD D LGA VGGACLEDE EGPA LRVLD EDS EHPHMILRTD
1795	9846	A	2743	122	1162	LLEG DGGASQWVGGRQLQDCRNRS QGSPETLIP/PSLQITVPSR1C/P/SLQVGL T/PPRPAVPSAAAALGRNRLR*RGWHRRI IPFWV ASISRAASSWG/IKPPLFVPSQPE T LGETWVIAK MAGTYGGSRNTLPRSPGG NFRSITVPR*VQITP RQPGAGLPKPVV TSSD*QASRSSPCRSRKDGPSPALPV RGEFEPSPSLQPPPSTR*PSRLGRPRPSA LSGPRLAPEHAQSS TSPSRWTSPRMLR APARAPP C PSPTLVPVSTPSPP* RWSQ* SGH T PGRFFPCSPPRIRASACASLSGT GSTAYQIAHAPIIIVFLTSRLAFLRLAGS CTNHG
1796	9847	A	2748	54	188	NMTKLQVVSKNL LKMLIKERETQRK GGSS*KSTOGAKGGAPR
1797	9848	A	2749	572	857	QOKKGFMSGG*GEK GSLGNPSSWGTAGG QAPVPPQGLTGTFTQGSSGTAGPPAST FCLGGHGA VVGTG YGRQMYM YEFVFC VGVQAKKDLCPRE

1798	9849	B	275	53	403	ALVTEFOETHSQDAIEHVLANLANFAYD PSNYQYLRLQLQVLHLLFLDSLSEENETLV EPA/GGLCNLCOPDRANKEHILHAGGVPLJ INCLSSPNEETVLSVITLMHLSPPGRSFL P*
1799	9850	A	2750	3	127	
1800	9851	A	2751	1	359	LILVKAAAALDTGHLSFWFGVRCAFQNP GRGCS/PEGKQLQSRV1*0*EFQSTAAC EEHYMASIRRSVSPSLSVCTSPLPVLIDIL PPTDLYFEQHSPL*LKVKGSIL*RSSPLR KES
1801	9852	A	2752	1	1270	MGATTMDQKSLWAGVVVLLLQGEMG FCVYARAGLELLSRSRPPASASQAGITG SAYKLVCYFTNWSQDROQEPGKFTPENID PFLCSHILJYSFASIENNKVIKDKSSEMVLY QTINSLTKTNPKLKILLSIGGYLFGSKGF HMPVDSSTSRLFINSLIILFLRNHNFDFGLD VSWIYPDQKENTHFTVLIHELAEAFQKD FTKSTKERLLTAGVSAGRQMDNSYQV EKLAKDLDFINLLSFDHGWSWEKPLTGH NSPLSKGWDRGPSSYYNEVYAVGYWI HKGMPSEKVVMGIFTYGHSPTLASAETT VGAFAASPGPAAAGPITESSGHAYEICQF LKGAKITRGSRDQQVPPYAVKGQNQWVGI YDVKSMGMDQGSVL*RFKTTWGAMIW SIDMDDFTGKSCNQGPYPLVQAVKRSLG SL
1802	9853	A	2753	385	570	KLGTEQDKGGRIIILVWAKLHOLS*H RVLSIGN*GPOEG*MGMPGVHILLFFRT KIRIOI
1803	9854	A	2754	1	1022	MTLAPSDQDLFVFRSGPPAAAGMPCIFF PEVPFCTRVHQPTGRDGSKNLNNEFLIAC PGLMLAOGPLDPTTESSVPTNKTALCGIFS DVAATAENRQTFMOSAJQFLRKYNNEDG LDIDWEYPGNRRGSPADTQQLFTILLKEM YEAEFEQESTRSKPRLLMSAAVSAKGGT IETACQIPEMSSSTPSRKEPPRVWNAPWE PVVYKGNOQWIRYDNKSFSFLK/AVLPH SKDKV*TEFFALLCLSPAHGKFTQAEPK SGGDRASGLLQSTHLYPGHQLVAPIITA PGGGSTGGSGFCFTGKSKGLYPVPHSKH AFYNCVDEHTYEEACQEGLVFDTSCSC CNW,A
1804	9855	B	2755	143	867	XVVVLLLQGGSSAYKLVCYFTNWSQDR QEPGKFTPENIDPFLCSHILJYSFASIENNK VIKDKSEVMLYQTINSLTKTNPKLKILL SIGGYLFGSKGFHMPVDSSTSRLFINSLIIL FLRNHNFDFGLDVSWIYPDQKENTHFTV LIHELAEAFQKDFTKSTKERLLTAGVSAS GRQMDNSYQVKELAKEADLDFINLLSFD HGSWEKPLITGDNNSPLSKGW/QDRCGPSSY YNECICCGVLDT
1805	9856	A	2756	2	394	CAHSHTALRVVRNHFYFTTATOVHKGS SSHPTCDRNEMMASSPQPSAFGPGWG AR*PAPAPLPHRRLGLPGSVTG*WRPIVGQ *PSPHTHCKASTKAQPEGPPTPP/GKPS WKEPLPESHKKSALPSFP
1806	9857	A	2757	499	1592	QPSQPFSLAGLNQTV/PWGTLHRAELSP STVENSSQLDFEDVWNSSYGVNDSFPDG DYDANLIEAAA/APCHSCNLLDDSLAFTIL NQCSWGILASRTGLFMPFRPFRWQLCP GWPVVLGTAGCAGAVAFQHLLWVPGP QGYGOSTRSSALL*LAGTGVWYGSAFQA ALLLGGCHASLGHRLGAGQVQGTLTLGL TVGIWGVVAALLTLPVTLAISGASGGCLCTL IVSTELKALQATHTVACLAIFVLLPILGL FGAKGLKEGIGLMGPGPILDEISLWAWF IFWPHGVVGLDFLVRISKRLLLSTCL AQQLADLLNLAEALAILHCVGTPLLLA

					LFCHQATRTLLPSLPLPEGWFHLDLGS KS
1807	9858	A	2758	1541	1830 KRFHLHQGHTSGKGSRGFHLCGGFSS KSP/GS*PGAGGASSSSQSKSPGPRPARV RRRLWVRAPPATSOEEASAGRVRPSS VHVNIUPPSVRPA
1808	9859	B	2759	4	1698 MGFNTPLSTLDRSRMROKVVKNDIQEELNS ALHHMDLDIYRTLHPKSTEYTFSSAPQR TYSKIDHVGSKALLSKCKRTEHTNCLSD HSIAKLELRKKLTQNHSITWKLNNWLL NDYVWHNEMKAEKMFETNEIKDTTY QNLWDFTFKATLNEQEEVESLNRPTGSEQ AMINSLGTTKQLQDQTSQPSSTRDDMIV YLENPIVSAQNLKLISLNFSKVSGYKIN QKSQAFLYTNNRQTESQIMSKLPPFTIAK IICKLGVQLTRDVKDPFKENYKPLLNEIK EDTNWKWNIPCSWIGRINIMKMAILPKVI YRFNAIPIKLPMFTFTEEKSTLKFVNWQ KRACIARSILSQRNKAAGGITLPPDFKLYQK ATVTKTAWWYVYQNRDIDQWNIETPSET MFIYHYLIFEKPDKNKKWKGKDSLFNK WCWENWLATCRKLKLDPLFTPYTKINS RWKDLNVRPKINTLEENLGNTIQDIGNM GKDPMSKTPKAMATKAIDKWDLJLK SFTCAKETTTRVNROPTWEKIFAIYSSD KGILISRYKELKQIYKKKTTPTSTG*
1809	9860	A	276	842	2432 SLISCSSESSPKASGSS*EHCPAKPLPG TPWLLTPGPESGGG*PDVGLR/GQPMN AAPV*SPSCL*NPGLTPSGVSS*MPVL LKEPAFQMAEKAPNGAVCAP/SPFASTS GLWSPAVGVRPRSRSLHGSALPWGHAR Q/SGYPGOSAAGCOPRPGGGSRSPGGR SVPGSGAWRWPGRSEACTAPRAWRSA LGESCGPAGSGA*AW*WOTAPSHPHWGW IGS***VGHLLRAGCAPCWCPLGTCIG LPSRGSHKSLSLSVQVQWLIIRFFPLS* M*PKAALPS*RERPSCAHWTAGVMG FLSV*SVIR*LSHCLAAESSPHGAPGQQ TATOIGGGGSRYVQGR*NHRCRS*PIQR PCQOAGSGGRVASTWCAQ*QTPPGSHSP PTANREINPGPAAAADTRSCWGHKRSW RGWRLGLAPWRLGFGSWPNSRDQGPAGI PAARRGQPTFGLAHGPR*RRTPRDGRE GGKGAGAKPSETLTSRSPVWRGKRGSA NGIFLSWVQILQYFAANGIWEWGRGLR L
1810	9861	B	2760	1	1044 MGRNRSRKDENSKNQSASSPPKDRSSSP ATEQSWMENDFDELTETVGFRRLNQEVE ESLNRPGRSEIEAIIANSPLTKKSPGPDGET AEFYRRYKEELVPLFLKLQFOSYEKEVILP INSFYEAISILIPKPGRDTIKKENFRPSLM NINAKILNKILANQIPQHKKLNHEDQVG FIPGMQALFHJQESINVIIHINRTKDKNH HSIDAEEKAFDKIQQRFLMLKTLNLKDDMI VYLENPIVSAQNLKLISLNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSELPFTIAK KRIKLYGIELTRDVKDLFKENYKPLLNNQI KEDTNWKWNIPCSWIGRINIVKRATLPK*

1811	9862	A	2761	I331	2175	TEPKTIT*LSQ*MQRPLIKFNNPSC*K LSN/IVLEVLLARAIQREKEIKGIGLKEE VLSLFADDMIVYLENPPIASQNLKLISN FSKVSGYKINVKQKSQAFLYTNRQTESQ IMSELPTIASKRKYLGIQLTRDVKDLFK ENYKPLNNEIKEDTNWKWNIPCSWIGRIN IVKMAILPKVIYRFNAIPIKLPMFTFTE KFTLKFVNQKRAITTSILSQNKAGGI TLPDLKLYYKAIVTKATAWYCQNRDID QWNRT*EP*EJMLHIYNYLIF
1812	9863	B	2762	I	2898	MRQVKVNKDQEELNSALIQQEDLIDIYRTL HPKSTEYTFPSAPHTYSKTDHIVGSKAL LSKCKRTEITNCLSDHSALKELITKLLT QNHSTTWKLNNNLNDYWVNNEMKAEI KMFETTNKNDTYYQNLWDTFKAVCKG KFIANAHKRKQERSKIDTLTAQKLE KOEQTHSKASRQEITKIRAEKLKETETOK TLOKINESRSWFFERUNKIDRPLARLT KRKKNQIDAIIKNDKDIDITDPTEQTTI
1813	9864	A	2763	3	668	
1814	9865	B	2764	64	1242	MINSLGTTKQLDODTSDSOPSTSTRDDMIVY LENPIVSAQNLKLISNFSKVSQYKINVQ KSQAFLYTNRQTESQIMSKLPTIASKII KYLGVQLTRDVKDPFKENYKPLNNEIKE DTNWKWNIPCSWIGRINIMKMAILPKVIV RFNAIPIKLPMFTTELEKSTLKFVNQK RACIARSILSQRNKAGGITLPDFKLYYKA TVTKATAWYVQNRDIDQWNUTPESETM PHIYHILFEKPDKNKKWKGDSLFNKC WENWLATCRKLKLDPFLPTYKINSRWI KDLNVRPKTINTLEENLGNITQDINGMK DFMSKTPKAMATKAKIDKWDLILKLSF CTAKETTTVNRQPTEWKEFAIYSSDKG TLYIYKELKQIYKKTTPSTG*
1815	9866	B	2765	287	898	MNINAKILNKLANQIPOHKKLNHEDQV GFIQGMQALFHQESINVIIHHNRTKDKN HIIISIDAEEKAFDKQIQQRFMLKTLNKLDD MIVYLENPIVSAQNLKLISNFSKVSQYK INVQKSQAFLYTNRQTESQIMSELPTI ATKRKYLGIELTRDVKDLFKENYKPLL NOIKEDTNKWKWNIPCSWIGRINIVKRAL PK*
1816	9867	B	2766	I	1443	MKLPEEASGSNICCYAIFAVLQPLLVIPK ETVSGVLDLQQTPIDLQLSDLTPGRKTNK QKGIAISPSTKRTSTPKPHLQANAQRFCH HQACVTRVPKGSTKHGKEQLVPATAKT CQIVKNINAMKLLHQTLTEQITREYHKH LYANKLNKLEEMDIFKLDTYTLPRLKQEE VESLNRPIMGSEIAIINSLPTKKSQGPDG FTAKFYERYKEELVFSLLKLFPQSIKEKGIL PNSFYEASILIPKPKGRDTTKEFPRPISLK NIDAKILNKLANRJNQPIEKLHHDQVGF IPEMKGWFKKCKSINVIIHHNQNTNDKHN MISIDAEEKAFDKTQOPQFMLKTLNKLGTI RQKKEIKGIGLKEEVKLSLFADDMIVY LENSIVSAQNLKLISNFSKVSRYKINLQ KSQAFLYTNRHMESQITSELPTIDT IKYLGIGQFTRDVKDLFKENYKLLNEIKE DTNWKWNIPCSWIESIS*
1817	9868	A	2767	I	966	
1818	9869	A	2768	I	216	
1819	9870	A	2769	3	2074	
1820	9871	A	277	721	1027	

1821	9872	A	2770	1	1632	MHCILPTPSGSQSFVYTSQSQPKTPGAF SGTLSVREPLSPPEPDVLPLGSACKAALC WFVFSVLDAASPVTPWVPSRSPWECRCV PSPPVREAPVSPPFQCAPPPYTDCLSPYL YEYTCPSPCARVPIPSSTHPWEYKVP HAERLCPSEDPPCLCNWKTRAAGARES SLVPCPYAARYPPSPPRVAWSSHFSYRG LSPSLGPNKPGNPRGPSESPPAASASRPR AAASAPPGAIRLPASTPLRLARDGV
1822	9873	A	2771	842	2353	TEPKTKTT*LSQ-MQRPLTKFNNPSC* LSN/IVLEVLLARAIQKEEJKIQLGKEE VKLISLFAADDMVYILENPIASQNLKLISN FSKVSGYKINVQKSQAFLYTNRNTESQ IMSELPUFTIASRKIYKLGIQUTRDVKDLF KENYKLPLIKEIREDNTNWKNIPCSWIG RMNIMMKMAILPKVYIYRFNALIQLPLTSFT KLEKTTLKFIFWNQKRARIKASILSQKNK AGGITLPDFKLYYKAIVTAKTAWCYCQN RDIQWNRTEP*EIMLHIIYNYLIFDKPEK NKQWGKDSLNFNWKWCENWLTIKCLK LDPFLTSYTKINSEWIKDLNVRPKTITK EENLGNNTIQDGMGKDFMTKTPKAMAT KAKIDKWDLILKLKSFCTAOETTIRVNRP TEWEKISAIYSSDKGLISRIYKELKQIYKT KTNNPPIKKWAKDMNRHSKEDIYAAKR HMKKCSSSLAIREMQIKTTMRYHLLTPVR MAIL/RIKSNNRCCWRCGGEI
1823	9874	A	2776	3	2077	
1824	9875	A	2777	3	1038	TAEGTIVIARRLRILEGTGGMESRVPAPL SAAEVEEHLRSSLILPPLETALANFSSGP EGGVMMOPVVRTVVPVTKHGRGYLQ/WMPA YSAAEADLTTLVTLRGPRLHLLRSSL TRVIVVTTLSPAMGTLAVMDGKCS*IA KRTAAVSCHLPLPSFLKPPSSEVILCILGAG VOQAYSHYEIPTEQFSFKEVRIWNRITKEN AEKFADTVQGEVRCVSSVQEAVAGADV IITVTLAENPILFGEVWVPGAHINAVGA SRPDWRELDDDELMEAVLYVDSQEAL KESGDVLLSGAEIFA*AGEK*FKGVKPS /YCEKTPRCSKSLGMAVEDITVAQTHP MIPWSSKG
1825	9876	A	2778	2	2037	
1826	9877	A	2779	3	194	TFFFQVKPDGTYVVKPLSNKLTYG/IMV FVRSLVGEAARALS <sup>5</sup> KACTIAIRYSAV HSEIKPG
1827	9878	A	278	615	2182	PQVIRPWPVKVLGLQGLLTFRDVAIEFS QEEWKCLDPAQORTLYRDVMLENYRNLV SLDTSSKCMMMKMFSSGTQGQNTEVVHTG TLQHASHHIGDTCPEQIEKDHDVFQFW QENETNGHEALMTK/YQVDE/CTERHD QRHAGNPKPLKMSLDQAFIRICLCKCTYFT PKGKLVILRRLSTMLS/HVSASQRISCRP KTRISNRYNNNFLQSSLTOKREVHTRE KSFORNESGKAFNNGSLLKKHQIIHLGD KQYKCDVCGKDFHOKRKYLACHRCHTG ENPYTCNECGKTFSHINSALLVHKAIHTG EKPYKCNECGKVFNPQNSNLRJHRVHT GEKPYKCEECDKVFSKSNTYLERHRRJHT GEKPYKCKVCDKAFVRDSHLAQHIVH TGEKPYKCNECGKTFVQIHLVVMHKVW HTEGEKRYKCNECGKVFNHNKSNLACHP* TSIPGRETFTVRVMECGQGFNRKSNLER HHLIHTGKKS*KCIEICKVFRQQSNLAC HHLIYTGEKPYKCEECDKSFQFQITP
1828	9879	A	2780	1	903	
1829	9880	A	2781	133	402	
1830	9881	A	2782	2	242	

1831	9882	A	2783	26	2229	RRFRAGAADLDCCHHLGRCLLRQCLVVA MNPDJLRRERDSAASFPEELTHTLDGSPE KTRRRREIENMILANDPPDFQHEDLNFVLT SQRYEAVVRKSADMVKMREFGJADPDTLE IMWFKNFVHGRGRPEPLDLHJ.GMFLPTLL HQJATAEQQERFFMPAWNLEIIGHFIAQ TEMGHGVTIHLRSLETTATYDPETEQEFIL NSPTVTSLIWWPPGLGTSNTSHAIVLQA ITKGKCYGLHIAFVPIREJGTHKPLPGITV GDIGPKFGYDEIDNGYLKMDNHRIPREN MLMKYAQVKPDGTVVKPLSNKLTYGT MVFVRSFLVGEAARALSACTIGILYSA VRIHSEIKPGEPEPEPLLDFQTQQYKLFP LATAYAFQVGYAMKETYHRINEGGGG DLSELPELHALTAGLKAFTSWTANTGIE ACRMACCGHGHGSCHSGLPNIVVNFTPS TFEGENTVMMIOTARFLMKSYDQVHSG KLVCGMVSYLNLDLPSQRIOQQVAVWP TMVDINSPESLSTEAYKLRAARLVEJAAK NLQKEVIRHKSKKEAVAWNLTSDVLVRAS EAHCYVVVKLFSKELLKIQDKAJQAVL KEUSCLLVSLYG1S1Q1NAGDFLQGSIMT GPQITPSNPNAVRELLTLI1RSDAVALVDA FDFOQDVTLSGSVLGRYDGINVYENI.FEW AKN1SPLEPKAEVHGFTRHLEVHCQSQA LEVFTRDKFKGQKAFVWQLQ1WESF SN1SR1
1832	9883	A	2784	61	241	
1833	9884	A	2785	60	341	
1834	9885	A	2786	70	428	IGPPQGFSPTPSLKPRPRIFKTPPIRGWNWG PRPPPGVSPQFOGFGDGTKFNLIEILFVVL TFSV*AQSGDPAAPRPSGP/RPGGRERE G+NEEKSPVLPQCGWGGWRHPPSAALLW ALIW
1835	9886	A	2787	38	243	TPSTIDKSLTSLIKKKKA*INNFRDKKG IADKIPEM^KIIREYYENIHANTFENLQDI DKN1K1D0N
1836	9887	A	2788	2	114	
1837	9888	C	2789	50	214	
1838	9889	A	279	403	933	QQRWQQGWWQAWGGQPVQEVGFWF LLSWLSSLRLLGVPAQQPARGEVDPDPRGS RGARGGCSASAAPPARASPRGRCCWNG SRPPAQHRRRTSPATRVEAGQGEVRGVR RLPAPLLQAVQPLSLDRSYPAAPRPTA TSP/APPPSPAPKAPIVGALS*GTADPGSD SYPPSRSHAPRP
1839	9890	A	2790	1	624	
1840	9891	A	2791	2	851	
1841	9892	A	2792	1	1116	
1842	9893	A	2793	53	1408	HRCCLTWFQCLSIISLGIITFLIKEGKEGKL EPAREGPYLVLITTEAVLLISITIPTTSNS NPTLERFCGLGAEVTGKDPGMFFKVLRQ SLDADEGTAVD1QSFPRPKDFGRRRTLE ECHVTGKGGTGTKMSNRVCREASHAG SWY1ASGPQLNAOLEGWLSQVQSTKRP ARAJIAPHAGYTYCOSCAAHAYKQVDP ITRURFLGPISHVPLSRCALSSVDIYR1PL YDLRJDQK1YGELWTKGFMERMSLQ1TDE DERSIEMHLPYTAKAMESHKDEFITPL VGALSESKEQEFGKLFPSKYLADPSNLFV VSSDCHWGORFRYSSY1DESQGEIY*SI EHLDKMGMSIIIEQLDPVSFSN1YLLK1YHN TICGRHPIGWVLLNAITELOKNGVMNMSFS FL1NYAQSSQC1RNWQDSSVSYAA,WEHS RATEALNPQGCHLPHSSY1VRGSPA

1843	9894	A	2794	53	699	SLPSLTPPSRQPAPGRLLNTEHHINEHIL MYSLDLNSSSQMPSTKAQTSDEIFEV GEMPNHLLPIKAHVEUDLGMDDEGDDD PVPVLPVNAAILKKVVIQWCT/HPHKDD PPPPEDDEEQRKSVPPDIPVWDQGIPGK FDQGTLF*NSFLGLQTYFRTSKGLLDVTC KTVCOYDOKGKLP*EIRKPFPSKMTFT EEEAAQVRKJENQWCEEK
1844	9895	A	2795	162	522	WVRRGTISPARQRQDGVAAPANYAKV LEWQLAPSPRKHCQCQRPGTHLGMDSIGP LSPVGLPLKG*PDNSSEGPSS/ALPVP SSPGHPGSGGPKGQARSLLNCRGCPINW QHRCRCKI
1845	9896	A	2796	2	1214	OPFGSGCIVAILGRKMFSVAHLARAN PFPNPHQLVHDLGLDLRSSSPGPTGKP RRPVRNLAAGAEQYSCDYGSGRFFIL CGLGHIISCGTHTHALVPLDLVVKCRMK VDPQKCYKGUFNGFSVTLKEDGVVRGLA KGLAPITFLGYSMGGGLCKFGFYEVFVKVL YSNMLGEENTYLWRTSLYLAASASAEFF ADIALAPMEAAKVRIQTQPGYANT*EGI SFPKCIKEKGLKAFTYKGVALLWMRQIT YTMM*SSPCLERTV*SHTTSLGVPKPSE CSKPEQTGCNHLVAGVYIARVEFAUISH PC*FWVYLVLNE*SAVASSLLFVSVTLD FKGVWKGGLFARJUIMIGTLTALQWFIIY SVKGFRT/LPRPPPRDQSLLNNKFGL TPVVRSKQIVD
1846	9897	A	2797	276	728	CFGFVFRSWPVGPLSTGDVPKLGPNT* AMGGRRPGKPVQSPVSLPFGAGGHACSPAS LSPGPGPAPPRACLPSPRGRGRKSLLGAPGG FPPGDSHGAPCSRVVTVSPGNDLKPGHIS PRTLQRGGSLPGRWWVSCGVVCPWV WPLVSLASISGW1
1847	9898	A	2798	451	1030	VPEALSPFEMEGPQPPTMCCCSAPPAMP FPTT*OPSEAAAAGQGVPGFHRL*GGLAP AGRS*APAGAFWVGOGPAQRGEPEAYSSK GGAAAASTQRLV*HRGRHRGDASRGQCOP GDQNLIQ*KLCSSRAEGGAVSQPGWPAL PHAAQEPLASALPGLHAAQAPAPAVVSG PTTIRSCSGNSKGIFPSSCLDSCFPPS
1848	9899	A	2799	1	933	
1849	9900	A	28	1230	1820	QEYRPSQITPHLALSPERVAPGRRAAGRL APEARAPRGISP/LPPHRVSEKTRVVVFH PGARKAGITPPRPRGDTGAGPAVPTY STPLMSLHRARLESSSTGSSFFADSAKPV PLAVVSLSDR*GWEWSRSSIIHA/VTN*AS SSSSSSSSSSFSR/VYPRFIEFLHFDIQSTG Q/RTSRQHP/PR/DLRDAFL*1NSR1PL
1850	9901	B	280	73	207	ELGTQLRCTLGLASLQVEAHHSLVLS HLKTLWKKISNTKYS*
1851	9902	A	2800	1	1563	MREGKFKFSKCVFVODEMTKKWHKSD LHWVHSRJQCTVLGVLTNATEMRSLLPIES LFLQCFVVSAGSRNEATDCSGECYSSM RETRGSKECAAARPIKVKGKVLQKVESY KLYHYPFLANWFSASFVSKVGLVEMRG QEETLGLTFAIVLMPQAASSRALVLPPT MQLELQNFGNNTCSYRKPNMASSMRSLF SDHGKYEVESFRRFLNHSTEHQCMQEFM DKKLPGUIGRIDGDTKSEIKLISIGGNGAHEI DLQILSKVQAQYPGVCIQH*SCLRPSAG TNWPNYKELVALKTSLNLENKFAWHKE TSSEYQSRMLGEKGAFKSWSDFYSI*FKM LYVVKDIPATLUKFHISLJLGTNAKMLIIV CVOQSSGWDKLLWKKYGSRFAPQDDLC QVITSDDLTQMLDNLGLKYECYDILSTM DISDCFDGWNENGDLIWDFLTETCNFNA TAPPDLRRAELGKDQLEPEFES/ALRKE KVLFNNTLSFIVIEGITIQSOKYIQLYF

					QLESILYFHKITNSSH
1852	9903	A	2801	1	6750
1853	9904	A	2802	3	91
1854	9905	A	2803	3	7501
1855	9906	A	2804	3	3223
					PPPEAAVVAFEWLKTSTLTGLHPQLPLSL PQPECALPYLVRFRSGDYMGRQEVG WVTAGLVIWAGTCYYIKFTKGRAQSV RTLARNGSTVKMETVVGVQSQTLAINEA EIKTKPQEIGAETGARSGPRAEVETKAT AIAHRANSQAKAMVGAEPETQSESKVV AGTLVMTTEAVILTEVKAKAREVAMKEA VTQTDAAEAGKIVKKEAVTQTKAKAWAL VAKTEAKREAMTQTKAETHILAEKETEI NRVMV
1856	9907	A	2805	1	374
					NYFLSLRFDWHSKS*GHPTCVHCF*/TK NE/CASCHCGAGLIJFLGGSGEAGSHPC PSCLPLEYRSLHCSLGHGCECMPGASGW GPWTGPGRCPNLQCDKGSKRISWRVRG NGWGRPSFDNAPVAL
1857	9908	A	2806	162	789
					AGQNGVGSAAERCLSCLLIPALALWSIIENI LLYIPNGHTFYASSNKLNTNVWYSERI*L SGIMMLIVTTVLVLENNNNYKCCQSE NCSKKYVTILSIIIFSSLGIAFSGYCL/VISA LGSCP* AIC/LAPLMGWGVCF* RALLGRF LTDSSIWDSVPGNHAHVEVNLILFSILIT LSGWQVIICLIRVVVQLSKILCGSYSVIF OPGII
1858	9909	A	2807	1	3282
1859	9910	A	2808	136	447
1860	9911	A	2809	3	3593
					SSDPRPSSFWLVWVGLWSMVWRVPPFL LPLFLASHVGAADVDTLLANLRLTDPPQR FFLTCVSGEAGAGRGSDAWGPPLLLEKD DRIVRTPPGPPPLARANGSHQVTLRGFSK PSDLVGVFSCVGGAGARRTRVYVHNSP GAHLLPDKVTHTVNKGDTAVLSARVHK EKQTDIVWKSNGSYFYTLDWHEAQDGR FLLQLPNVOPPSSGIYSATYLEASPLGSA FRLIVRGCGAGRWRGPCTKECPGCLHG GVC
1861	9912	A	281	276	565
					WTSVSTGQSDDQAGPAPALIQMQRPGC GPSPVPGGWLE*RDQAGMGAAGAAAPA WVLLCIPAGQGGLPGRPLPFHPIPLKPCYC GILVEKKEPRGF
1862	9913	B	2810	85	283
					MEKTELIRRSAWRVISSIEQKTTSDKKL QLIKDYREKVESELRSICTTVLELLDKYLI ANATNPEx*

1863	9914	A	2811	I	932	KAKSRSKVEVGLASPRRRGSSRGSSRCG SALALALLA1RPGPFGPAPAMEKTELI OKAKLAEQAES/RYDDMATCCKMKAVENTEQ GA/QLSNEERNLLSWAYKNVVGGRRS A/WRVISKHPHSRKTTDSK1KLQLIKDYR EKVD1SEALRSVCTTVLGICLDKYF/ILANG NLIPESK1VFY1KMKG*FTFR1YLCELEVA CC/DDRKKQ1DNNSGA1QEAF/1DISKKE MOP1TVHPIRLGALLLTFSVVFY1E1LNNEPE ACLHW1WLKTAF*WRAIA*1LDTNEIDSY KDSTL1MQLLRDNLPLWTSDSA1GEECD AEEGAEN
1864	9915	A	2812	199	214	PPSPPLNSSTCC1AKTDEK*CKEKGSH1LH
1865	9916	A	2813	I	2176	QGP1LKFMDAGIEFSQDWEKCLDPQORT LYRDVDMEYRN1LVS1G1CLPDLSVTS1M IEQKRDPWT1LQSEEK1IANDPDGRC1KG1V INTERSSKLGSN1AGN1KPCKNQ1G1F1QLH LSDL1QLFQAERK1ISGCKH1FEP1VSDN1SS SPL1K1SSSVKSH1LLNK1YRN1FD1H1PL1P QE1QKAH1REKAY1KCN1EHQ1VFRAS1SL1T NOV1H1NADNP1YK1C1SEC1K1V1F1C1S1K1L1V1 H1R1RM1HT1G1K1P1Y1K1C1H1E1C1G1K1F1G1L1S1N1S1Q1 HOR1HT1G1K1P1Y1K1C1H1E1C1D1K1V1F1N1Q1A1H1L1R1 H1Q1K1H1T1G1K1P1Y1C1E1C1G1K1F1P1V1R1H1S1Y1L1E1 H1Q1V1H1T1G1K1P1Y1C1E1C1G1K1F1P1V1R1S1L1I1T1 H1Q1H1T1R1P1Y1C1S1G1C1K1F1Q1S1D1L1V1R1 HOR1H1T1R1P1Y1C1S1G1C1K1F1Q1S1D1L1V1R1 HRK1T1H1T1D1E1K1P1Y1C1G1T1A1F1R1E1F1S1D1L1T1A H1F1L1H1S1G1E1K1P1Y1C1E1C1G1K1F1P1V1L1H1S1F1H1 H1R1H1T1G1K1P1Y1Q1M1C1N1R1G1V1F1S1L1N1S1L1V1 C1H1Q1H1T1G1K1P1Y1C1N1Q1C1G1K1V1F1N1Q1A1S1Y1L1 T1R1H1Q1H1T1G1P1Y1C1S1C1G1K1F1P1V1Q1S1L1S1L1T1 A1H1A1H1T1E1K1K1S1H1E1C1K1E1C1G1K1F1Q1T1K1S1L1T1 H1R1H1R1H1G1E1K1P1Y1C1G1T1A1F1R1E1F1S1D1L1T1A R1G1F1H1E1G1P1Y1K1L1C1D1G1T1I1M1S1S1S1N1Q1H1Q1 H1T1R1H1T1G1K1P1Y1Q1M1C1N1R1G1V1F1S1L1N1S1L1V1 C1H1Q1H1T1G1K1P1Y1C1N1Q1C1G1K1V1F1N1Q1A1S1Y1L1 T1R1H1Q1H1T1G1P1Y1C1S1C1G1K1F1P1V1Q1S1L1S1L1T1 S1K1C1F1W1
1866	9917	A	2816	26	736	EP1P1V1P1D1H1R1L1V1M1T1H1V1A1N1L1S1C1Q1Q1P1R1P1 LP1N1Y1M1L1K1E1E1Q1V1A1V1L1G1A1P1Q1K1P1C1L1P1E1C1 PP1V1H1R1N1E1T1S1W1P1D1H1V1R1L1V1P1V1Q1H1P1L1H1E1 H1L1R1L1G1F1R1F1A1Y1S1V1K1S1L1R1D1K1M1V1G1E1V1N1 R1G1F1A1C1L1H1R1Q1A1S1C1K1F1P1V1Q1S1L1S1L1T1 LA1H1Q1S1P1P1K1F1W1V1V1P1G1P1A1N1D1R1E1S1A1L1R1P1 A1L1P1V1C1M1P1R1T1L1S1I1P1R1P1A1P1R1G1P1Q1E1V1P1L1T1 C1P1L1T1P1S1P1R1P1V1P1A1E1C1S1P1L1S1H1A1F1L1Q1W1 S1K1C1F1W1
1867	9918	A	2817	748	1637	D1M1E1S1G1F1T1K1D1T1Y1L1H1F1N1P1R1D1Y1L1E1Y1Y1K F1G1S1R1H1S1A1E1S1Q1L1K1H1L1A1K1N1F1K1U1C1L1D1G V1E1G1E1T1L1D1G1F1W1A1P1L1S1L1S1S1C1F1V1E1F1S1P G1R1V1R1S1D1Y1F1T1Q1E1P1G1R1E1G1R1K1W1L1E1G1K1E1 A1R1G1F1D1W1V1P1M1V1T1P1M1C1L1N1L1E1R1E1T1E1V1K1G P1R1R1R1K1K1L1Q1A1V1K1A1R1C1K1M1*1M1*1T1Q1K1P1S1 H1L1G1A1V1P1L1P1G1P1T1A1V1P1Q1A1H1L1C1G1C1P1C1P1R1 P1P1Q1T1C1K1G1S1G1T1L1G1Q1Y1L1K1P1R1G1P1S1L1V1M1 D1A1A1Q1P1T1Y1M1G1E1Q1F1S1L1P1L1G1E1A1V1K1A1 A1A1V1K1E1G1Y1T1E1W1F1E1V1S1Q1S1Y1S1T1M1A1N1M1 E1G1L1F1P1V1A1R1K1L1S1R1P1

1868	9919	A	2818	1	1538	MENPIVKSLAKARERLED SKLEAVSDNN LELVNEILEDITPLINVDENVAELVGILKE PHFOSLLEAHDIVASCKCYDSSPSPSEMNN SSNNQNLPPVDAIRLGHKRAEPLGVTF RVEENNLDLVIARILHGGMIDRQGLLHVGD IKEVNGHEVGNNPKELEQELLNKNISGSVT LKLPSYRDTITPQVVFVKCHFDYDNPYND NLUPCKEAGLKFSKGEILQVNREDPNW WQASHVKEEGSAGLIPSQFLEEKRAFV RRDWNSGPGFCGTISSSKKKKMMYLLIT RNAEFDRHEIJIQEVEAVKMPFPQRKTLV LIGAQGVGRRSLKNRFIVLNPTRFGTTP FTSRKPREDEKDQAYKFVSRSEMEADI KAGKYLEHGEYEGNLYGTKIDSILEVQ TGRTCLDVNPQALKVLRTEFMPVYVVF AAPELETLRAMHKAVVDAIGITKLLTDS DLKKTVDSEASRIQRAYNHYFDLJINNDL DKAFEKLQLTIAEKLRLMEPOWVPISSWV
1869	9920	A	2819	1	1749	EFVLNYPEPRVCRWCICSAAPVAEGERQ RGATSGSGSGGAEAAEVRAAMQVQVLEN LTLPSTGAEEIDLIFLKGIMENPIVKSL AKAHERLED SKLEAVSDNNLELVNEILE DITPLINVDENVAELVGILKEPHFQSLL AHDIVASCKCYDSSPSSPEMNNSVNNQNL PVDAIRLGHKRAEPLGVTFVRENNDL VIARILHGGMIDRQGLLHVGDIEKEVNGH EVGNNPKELEQELLNKNISGSVTKLPSYR DTITPQVVFVKCHFDYDNPYNDNLPCKE AGLKFSKGEILQVNREDPNWQASHV KEGGSAGLIPSQFLEEKRAFVRRDW SGDELDTICKDRHEIJIQEVEAVKMPFPQR KTLVLIGAQGVGRRSLKNRFIVLNPTRF TTVFTSRKPREDEKDQAYKFVSRSEM KADIRAGKYLEHGEYEGNLYGTKIDSIL EVVQTGRTCLDVNPQALKVLRTEFMP YVFVIAAPELETLRAMHKAVVDAIGHH PRI*PNSDLKTVDESASRIQRAYNHYFD LDPNSINDNPRPKPFKEKLQTAIEKPNQPP QWVPOSAYVYLMQ
1870	9921	A	282	1466	2353	RNVHLNLIIHFILYFKINVFHIDFPLGGEK NSGVLGFQAVQKQPRGSFFLPRIPQ*QN LRIGI*KGRRGPGSGPWPAGDITQOHPSK GKGLLPLPACPSL**QOGRRRSCOPGQRL GSY'GCKHPECQWSQRQVRPLSPVLFQPP PGTGAQPTSWASASGSAGACQPGS/PL GSVHTGSPSQAKSPSRVK*OQCOHPTH VSSPVSRFGFPKLPQGNRAGFAAPSP RDTPAAPPFRPGPPSPGSLAQDAGRSLP PPTRRPAAQSPRPRSASESEAARRGPVR RSRTGREEKSG
1871	9922	A	2820	14	230	FATLYPLKIFIFPKAFNPWREVGPLCPPK /CKGPSPKSPGW/CLNRPPIGKKLJPCKPR LTWAPPRL*NGPP
1872	9923	A	2821	170	303	RPLRGTPC*CAA WASSWW/GCCSACCSH CCLLGPCHWSGPSCA*WAFWCSGG
1873	9924	A	2822	208	547	AA PGAMGPWPDRLCGSALPSCLRCPVSS ASVSLRCAAENTFTQAGPCCWA WPHRA HQDPFLQIPFRHLEAPRCSPLSAWPPRH LLPAGDPDLQQEPGPQIRGAP*RPLRGTPC CGS/CVVAAGVRCGPVWL*HPEPADSH TATAEPRI*AA PGAMGPWPDRLCGSALP SCR LCPYSSASVSLRCAAENTFTQAGP CWA WPHRAHQDPFLQIPFRHLEAPRCS PLSAWPPRHLLPAGDPDLQQEPGPQIRGAP LSLRRRLLL
1874	9925	C	2823	48	173	MVRKRMEMKMRKLSQLRASGQLKMM RMXMSIPRSRPRGX*
1875	9926	A	2824	183	423	

1876	9927	A	2825	147	588	TLAFLIPCGSACPTMSDAIIVDTSSEIT TKDLKEKKEVVEEEAENG/REDRPLTG NAENEAEQEEA*QLR*DEE/EREGLG REGGREGRKEG*VVEEEDGRLKIEEAEAS ATGRATEBDEDDDCRYQRSRPDD LDSSKAKS
1877	9928	A	2826	1	77	SGRPPPPPPPPPPPP*CKGFLIGYM
1878	9929	C	2827	175	351	MKLQLSCQFNSRHHVLKKPLTMILS HFQASLSIFGFCSSLFRQSFSNLFF*
1879	9930	A	2828	56	380	KYLVDOHAGSPPVENILAEAVQNIQIL H*FIQSVNHRYML*KLDTDSL**FIQLQ NPTILGKVDVYKHEYKDGDGHSDFSNY SSHQVFFLFLIFNKNCDNMAIN
1880	9931	A	2829	3	129	
1881	9932	A	283	134	385	COIMDGMALIQAWPTPQQVVASNGTGLN PNAKWVQEIAPGNTDAPVTHGTESSW HEIAATSGAHPEGNAEPQKIVVKNM*C 1
1882	9933	A	2830	472	756	SSADSKTCTLTIGKPKASRVLQLCHEETFP NQNTAYRTICVD*CLMSPILLTSIF*SQ MIIRVVPICMNPFLIISCVLCIRKPVSEL PHLLGF
1883	9934	A	2831	1	170	
1884	9935	A	2832	1243	5595	
1885	9936	B	2833	2177	3174	MGKTTTPMIQSRPSFTWELQVPPSTCGD YNSFIKELRASQSNVIKPPGPVULKESV VENHAFLSYAVEEEEHAYLGLPTVKPDDK AKTLSEPLSSATVSTGSLLSYENTDLSL TDPESFSEHMDUSKQESTTSKEEETNISS IVPSTQDIYQRQNNSDVHKSLIPAVDDETT CGHTHFQOMIDKALYQSGKPETGHIME EPELTISTTDTSIAEMDFANLTLEEKSEN EAKCFFQQSKTRLKRLKRVKHATFLPLA TEASDYPAVSELSEIEKPRTASTETPRLLT VPGSLOEAFIKRKKSFSMERSHQROKEIR NIKHVSSENSQIKTVKEKPSISSL*
1886	9937	A	2834	2268	2547	KYLVDOHAGSPPGKSLCCKLEKSQRMNM ISQNLDDVVLRV*TADDAN*EKCPVILANL FFQVSNLH*VLVYHLLKVCVTCFSFH CROQRFMVN
1887	9938	A	2835	137	716	TTTMSKKAKTTKTKRPMQRTSNVFA MFQDASQIQGVQRGPFNMIDQNRDGFHS DK/EKVLHDMLAISLGNPH*WHYLDAA MMNEAPGPIQFSPCFLITLFG*GSLNGIIO IP*RCSPRKRLAFALDEEATGHFREDYD /REELLTNPWGDRVYQIEEVG*TCTGEAP *KQGGSNSYHRSFTRIPWKAPKAQR
1888	9939	A	2836	2	437	LVIESDLERAEEAELSEG/KSDSWKNN* E*WIRP*KH*WLQRISKCAELEEELKTVT NNLKSLEAQAEKYSQKEDRYEEEIKVLS DKLKEAETRAEFAERSVTKLEKSIDDLE DKFLCFSTPKTPSSWVMSHLSELICLFLSS
1889	9940	A	2837	1	834	GSVRVRAAAAGLSHCSPPARLPGAMAGS SSLEAARRKIRSLQEQADAEEERAGTLQ RELDHERKLRTAEADVASLNRRIQAW FEEFGFVPKERLATAFQKLAEAEAKAA DESERGMVIESRAQKDEEKMEIQEIQOL KEAKHIAEDADRKYEEVARKLVIIESDL ERAEEAELSEGQVREEQEQLRIMDSDL VKALMAAEDKYSQKEDRYEEEIKVLSDK LKEAETRAEFAERSVTKLEKSIDDLEEKV AHAKEEENLSMHQMLDQTLLELNMM

1890	9941	A	2838	9	1108	PDRATRPRPRARPADPALVGLPLAAVITM GAGKKKMRMLKLKDNEALDRAEQAEEA DKKAAEDRSKQLEDEEVSLOQKQLKGTD R*TGQIL*RLSKMPKEETWNWQEKKATD AEADIVASLNVRRIQLVEEELDRAQERLA TALVQKLEEAEEAADENSERGMKVIESRA OKDEEKMEI0QIPT*KRAKHHIAEDADRK YEEVARKLVIIESDLEPCRGSGAELSEKG CAEA*KEEFENL*PNNFVFEVHLEGSRLRK YSQSERPDMEEEIKGFPFDKA*RRLERTR AWSFAEERSVT*NLKESIDDLEDRAVTL QETEVQSHQRRSWDHALNGYDFHISFFA SLLPLRPRRSWMSHLSELFHLSYSPADPG SLS
1891	9942	A	2839	3	268	
1892	9943	A	284	305	1129	DICKEYEVMYSSCETTRNTTGIEESTDG MLRPEDLSDYQIYDVSGESNSAVSTEDLK ECLKKOLEPCFCSREKLSKDLYLSQRSD QFTPIWTAANMEEIKLTTDPLILEALRS SPMVQVDEKGKVKRPTTHKRCIVLREIPE TPIIEVKGLFKSEYCPKVISCEFAHNSD WYITFOSDTDAQQAFKYLKEWKVOKFA RPILAGIKANTFEC*EWSNNNGILESIVHP *TQAQYASPVEMQPVYNPHQQYSVSYI VPOQSWVSKSYTLL
1893	9944	A	2840	500	682	
1894	9945	A	2841	1617	2086	GLAASSRKJHOMVDDADAVGGPGGGPJM AGCDGLPQGGFSDIRPRLWLWLGPRLW SS*RTGTVIILASVPKLLM/DCYALARD RTATLGLTFDASIKTASNWIPDLWKETVF TKFPYQEFDTDLH/VKTHTRVSKQKTQV AVATTAAQRQTMEGQAPVEYI
1895	9946	A	2842	55	665	AMAEDDHGLSNDDGFPVEVTQGLELLVSA AAQDIVLLDGIQGLFLTLQFDNIVWWWDH FLGKLPHRVFKGGKEQHQHLAVPGOHL DADALILVALSGYHDISLQNKHLDFLG NEL\DLHQSTSTVPGVPMTCISLFWPLSN LLPRTA*ASFSGG*NLPICTSTFPV*SASSY VGERHRHWGYLSDGSTRLSMAKTAKA VLVPD
1896	9947	A	2843	43	548	
1897	9948	A	2844	1	876	
1898	9949	A	2845	222	482	
1899	9950	A	2846	3	218	SLFQLKTTKTQSRVVMGAIYDSSWFQEDR QAERFRTDRSTHLRLRRAEAAA*TKPAQ GPGSIPILPATPSSL
1900	9951	A	2847	322	452	LCCSI*TYLN/NILLIC*QSFSVLK*DFRVD* KKHKNPBMRSRVLNI
1901	9952	A	2848	3578	5288	TESREHFSWYSVTAARRPQVASKAEE LLMVLGTDMSDRRAVIFADTLTLLFEG JARIVETHQPIVETYGGPGRLYTLIKYLQ VECDROVEKVVDFKFKQRDYHQQFRHR QNNLMRNSTIEKIEPRELDPILTE:VTLMN ARSELYLRFLKRISSDFEVGIDSMVS*E VKQEHOQCLDKLLN*LAFLSCYHGRELI GLYVTMEEYFMRETVNKAVALDTYEKG QLTSSMVDDVFYIVKKCIGRALSSSSIDC LCAMINLATTELESDFRDVLCKNLRMCF PATTFOIQRGVTSAVNIMHSSLQQKF DTKGIESDEAKMSFLVTLNNEVCSENI STLKKTLESCTKLFQSQGIGGEQQAQAKF DSCISLDAAVSNKFRDLQEGLTTELNST AIKPOVQAWINSFFSVFHNEEEEFNDYE ANDPWVQQFILNLEQOMAEOFKASLSPV YDSL7GLMTSLVAVELEKVLKSTFNR LGLQFDKELRSLUAYLTITWTTWTRDK FARLSQMVATILUNLERVTEILDYWGPN GMLTWRLTPAEVRQVLALRIDPRSEDIK

					KAALVS
1902	9953	A	2849	233	801 VVILTGSNLVFYCSLFIFSVLPDQDVSLV *ICYLSLPLDIVFCNCVKIQFFFILSLEYY *FLTIFPHCFYFLLKTPFKHRELFILVFGL LKIFQ/LC*FFYLILLRFYFIFNCFLLDLF LWFIFWYFVIFACSWFIGVSLKFLLVPL/ CSFLRRCRHSPLF*GAS*TDLYLGCIPPF* VCLLWEFCGGL
1903	9954	A	285	1053	1403 TFTQDSAGSLVVHSPMTSIWKTAESVQD GHFFIIILILFVYLLFETGHSVTHATMQW CDHSSLQPQTIP/SGSGDPPTLAC*VPGIG MCCHHTWLIFTFAETGSHHVPRLVSNSP LA
1904	9955	A	2850	170	494
1905	9956	A	2851	70	1474 RESGTWQPGKAGTQTGAKFWEVISDEH GIDPTGTYHGDSLQLERINVVYNEATG GKYVPRAVLVDELEPGTMDSVRSGPFGOI FRPDNFVFCQSGAGNNWAKGHYTEGAE LVDFTVLDV*RKEA/ES*DCL/QQFQLTHS LGGGTGSGGMGTLLISKIREEYPRDRIMNTF SVPVSPKVSDTVVEPYNAILSGH/QLVEN TDETYCIDNEALYDIFCFKTLKLVTTPPFG DLNHLVSATMSGVTTCLARPFGQLNADL RKVAVNMVPPVRLHFM/GGGFAPTDQA GASQASTRALTVPRSSPKQMFDA\KNM MAA/CDPRAWAAYLDGLPPCFRGPHVPL KEVDEQMLNIVNQKOKQPAIFVEWIPQQ CEKRAVCDIPHRLRGKLNVRPPSFQKQAR PIPGAFSKPHLPKQFHGPFCRRKALSPIT GGEGMDEM\EFHPRPESNKNDLVSEYQ/ QYQDATAEVEGEGEGRSLGRKVA
1906	9957	A	2852	284	359 QQEANPASLQHVSTSN/CVLTCCKGA EGLASCCYCHCLCNECCQGACGPDTHL AHCCRCOHSSKPPGGPRI/ASTQTCYYC PCRLPGGSRT*CLASCPYHWCPWTSLPG SPVNPKAPP
1907	9958	A	2853	295	478
1908	9959	A	2854	1	1167

1909	9960	A	2855	3	1328	SGILGTTTSPFPVGVVLRV <del>ECPLCPGPAP</del> MSVPFAFIDISSEEDQAELRAYLKSGKAE ISEENSEGGHLV <del>DLAQJIEACDVC</del> LEKEDD KDVESVMNSVVSLLL <del>IEPD</del> Q <del>E</del> ALIE SLC <del>E</del> KLGP <del>N</del> FR <del>E</del> GP <del>P</del> LLR <del>Q</del> OFVKATF STGMD <del>E</del> IL <del>P</del> V <del>K</del> IHS <del>V</del> ICSL <del>U</del> KV <del>A</del> ASCGI AIQYHPOLEPGIKFRKWD <del>FLN</del> W <del>V</del> NNLTG K <del>K</del> STPL <del>L</del> KTT <del>T</del> MKA <del>L</del> V <del>D</del> CK <del>K</del> SDA <del>A</del> SKG MVELL <del>G</del> SPY <del>G</del> GGC <del>F</del> FR <del>A</del> R <del>V</del> D <del>A</del> H <del>R</del> C <del>V</del> RAI <del>K</del> D <del>P</del> NA <del>PP</del> FD <del>H</del> LL <del>T</del> L <del>K</del> P <del>R</del> Q <del>V</del> FW <del>K</del> GE L <del>I</del> H <del>V</del> F <del>P</del> P <del>N</del> F <del>V</del> SA <del>*</del> MGH <del>H</del> M <del>S</del> R <del>F</del> Y <del>P</del> D <del>L</del> R TFH <del>I</del> PL <del>G</del> P <del>V</del> T <del>M</del> D <del>G</del> W <del>K</del> P <del>M</del> R <del>L</del> L <del>F</del> L <del>W</del> G MQ <del>Q</del> *ENRUEISFW <del>T</del> TM <del>P</del> ARNFRIGA <del>D</del> DI <del>V</del> EAFVIDA <del>G</del> KELK <del>M</del> V <del>Y</del> CON <del>N</del> WS <del>R</del> P <del>Q</del> R <del>K</del> V <del>V</del> VS <del>H</del> STH <del>R</del> IT <del>F</del> G <del>K</del> QQ <del>W</del> Q <del>Q</del> T <del>V</del> /Y <del>D</del> T <del>L</del> NA <del>W</del> K <del>Q</del> N <del>L</del> N <del>K</del> V <del>K</del> N <del>S</del> L <del>S</del> P <del>G</del> Y <del>L</del> K <del>F</del> L <del>C</del>
1910	9961	A	2856	377	2393	FSLECLGJENR*D*ITYK <del>T</del> ISL <del>G</del> T <del>G</del> K <del>V</del> F <del>N</del> KJOPHTIKNKK* <del>K</del> T <del>L</del> N <del>K</del> LGIEGNFLNL <del>N</del> GIVEEPMVS <del>I</del> IL <del>N</del> EGLD <del>Y</del> P <del>P</del> LR <del>S</del> ET <del>R</del> Q <del>G</del> CLLWP <del>F</del> LFN/IVLDSQ <del>E</del> RAIRQEN <del>K</del> EN <del>K</del> IK <del>V</del> VGKEEV*LN <del>R</del> MGDDMV <del>V</del> L <del>C</del> I <del>V</del> Q <del>G</del> K <del>M</del> K <del>I</del> QRH <del>D</del> LL <del>N</del> INKFSK <del>V</del> T <del>G</del> Y <del>R</del> I <del>N</del> CR <del>K</del> L <del>V</del> IP <del>F</del> H <del>I</del> *Y <del>Q</del> LN <del>K</del> SQ <del>N</del> D <del>V</del> K <del>T</del> *F <del>S</del> TM <del>V</del> K <del>L</del> GG <del>L</del> C <del>R</del> V <del>I</del> PTL <del>W</del> WESE <del>A</del> ER <del>L</del> LE <del>A</del> RR <del>P</del> A <del>W</del> ET <del>V</del> RS <del>R</del> HLY <del>K</del> N <del>K</del> Q <del>T</del> K <del>N</del> N <del>K</del> Q <del>T</del> K <del>N</del> T <del>L</del> D <del>V</del> M <del>T</del> IC <del>R</del> SY <del>S</del> AE <del>E</del> V*GW <del>L</del> EPO <del>S</del> SKL <del>Q</del> *A <del>I</del> T <del>G</del> SLQ <del>S</del> L <del>D</del> R <del>Q</del> S* <del>T</del> L <del>T</del> Q <del>K</del> K <del>T</del> KK <del>R</del> KK <del>L</del> T <del>A</del> S <del>E</del> R <del>V</del> K <del>Y</del> Q <del>Y</del> N*G <del>S</del> R <del>N</del> ID/PH <del>L</del> SSN*LL <del>E</del> NSN*G <del>Q</del> Q <del>Q</del> WG <del>G</del> K <del>V</del> FF <del>I</del> K* <del>C</del> LET <del>W</del> IST <del>W</del> Q <del>N</del> NG <del>N</del> W <del>D</del> Y <del>L</del> IL <del>H</del> IK <del>I</del> N <del>S</del> EL <del>T</del> *DL <del>N</del> R <del>V</del> AN <del>I</del> V <del>S</del> IF <del>K</del> EN <del>M</del> GV <del>N</del> LS <del>D</del> FE <del>L</del> GN <del>D</del> FL <del>N</del> * <del>P</del> L <del>K</del> T <del>Q</del> AT <del>K</del> EEN <del>R</del> R*IK <del>I</del> K <del>T</del> IC <del>V</del> SK <del>D</del> N <del>I</del> K <del>A</del> K <del>I</del> Q <del>O</del> PT <del>E</del> *DN <del>F</del> * <del>N</del> H <del>V</del> L <del>V</del> KG <del>G</del> I <del>C</del> I <del>N</del> M <del>*R</del> T <del>V</del> T <del>W</del> K <del>R</del> H <del>I</del> I <del>Q</del> FL <del>K</del> Q <del>Q</del> GV <del>W</del> N*Q <del>S</del> K <del>G</del> GY <del>T</del> K <del>G</del> P <del>L</del> R <del>H</del> ME <del>K</del> VS <del>Q</del> PSL <del>A</del> IRE <del>M</del> Q <del>R</del> MR <del>S</del> TM <del>R</del> Y <del>H</del> L <del>T</del> * <del>P</del> LE* <del>T</del> Y <del>N</del> QS DN <del>I</del> K <del>C</del> W*G <del>C</del> RE <del>I</del> G <del>T</del> L <del>M</del> H <del>C</del> W <del>W</del> Y <del>P</del> DI <del>K</del> N <del>V</del> Y <del>I</del> K <del>T</del> CA <del>Q</del> M <del>F</del> PA <del>L</del> F <del>I</del> *A <del>Q</del> *N <del>G</del> * <del>P</del> FL <del>S</del> L <del>T</del> S <del>A</del> L <del>T</del> K <del>T</del> W <del>H</del> H <del>I</del> /M <del>E</del> Y <del>Y</del> SS <del>O</del> *K <del>K</del> EM <del>K</del> V L <del>W</del> P <del>T</del> TM <del>E</del> K <del>P</del> LE <del>K</del> P <del>Y</del> P <del>S</del> E <del>C</del> P <del>R</del> HER <del>P</del> TY Y <del>M</del> IS <del>I</del> Y <del>M</del> K <del>C</del> P <del>R</del> TY <del>E</del> Y <del>I</del>
1911	9962	A	2857	3	445	GEFADSF/*SSM <del>G</del> S <del>P</del> V <del>N</del> A <del>Q</del> D <del>F</del> CT <del>L</del> A <del>V</del> SSA N <del>F</del> PT <del>V</del> T <del>A</del> IS <del>T</del> SP <del>D</del> L <del>Q</del> W <del>V</del> Q <del>P</del> AL <del>V</del> S <del>V</del> SP <del>A</del> S <del>Q</del> TR <del>A</del> PH <del>F</del> GP <del>G</del> V <del>P</del> ASS <del>G</del> AY <del>S</del> R <del>A</del> G <del>V</del> V <del>K</del> T <del>M</del> T <del>G</del> GR <del>A</del> T <del>G</del> GR <del>A</del> QS <del>I</del> GR <del>R</del> GR <del>K</del> V <del>E</del> Q <del>T</del> D <del>Q</del> LE <del>E</del> K <del>S</del> AL <del>Q</del> T <del>E</del> I <del>A</del> N <del>L</del> Q <del>E</del> E <del>K</del> LE <del>F</del> IL <del>V</del> A <del>A</del> H <del>R</del> P <del>C</del> LA <del>R</del> F <del>P</del> D <del>G</del> GA <del>F</del> PE EM <del>S</del> V <del>A</del> S <del>L</del> D <del>L</del> T <del>G</del> GL <del>P</del> EV <del>V</del> A <del>T</del> P <del>E</del> EE <del>A</del> F <del>T</del> L <del>P</del> L <del>L</del> N <del>D</del> PE <del>P</del> K <del>P</del> S <del>V</del> EV <del>P</del> V <del>K</del> A <del>S</del>
1912	9963	A	2858	295	1622	DEMSVAGSFLFTAACGTGNSPHLCPE <del>H</del> RSRRLSP <del>S</del> VL <del>F</del> *DF <del>C</del> TD <del>L</del> A <del>V</del> SSAN <del>F</del> PT <del>V</del> T <del>V</del> A <del>I</del> ST <del>S</del> PD <del>L</del> Q <del>W</del> L <del>V</del> Q <del>P</del> AL <del>V</del> S <del>V</del> SP <del>S</del> Q <del>T</del> RA <del>P</del> H <del>P</del> FG <del>V</del> P <del>A</del> PS <del>A</del> GA <del>Y</del> S <del>R</del> AG <del>V</del> V <del>K</del> T <del>M</del> T <del>G</del> GR <del>A</del> Q <del>S</del> W <del>I</del> Q <del>E</del> GA <del>R</del> W <del>E</del> Q <del>V</del> R <del>N</del> F <del>R</del> RT <del>L</del> PG <del>N</del> V <del>G</del> AG <del>W</del> WEA <del>A</del> PE <del>M</del> Q <del>E</del> PE <del>S</del> TE <del>E</del> AT <del>*W</del> GL <del>L</del> A <del>H</del> P <del>*L</del> AL <del>A</del> P <del>S</del> PH <del>N</del> SD <del>E</del> F <del>S</del> *EV <del>L</del> S <del>*F</del> L <del>P</del> *V <del>S</del> Y <del>V</del> R <del>M</del> L <del>S</del> W <del>A</del> LL <del>C</del> SA <del>E</del> LL <del>I</del> LN <del>A</del> SH <del>T</del> *S <del>A</del> TA <del>G</del> G <del>Q</del> W <del>F</del> H <del>S</del> G <del>V</del> P <del>G</del> S <del>R</del> EA <del>A</del> GA <del>S</del> ST <del>G</del> V <del>G</del> EW <del>R</del> *W <del>O</del> T <del>L</del> LL <del>N</del> V <del>G</del> LF <del>L</del> *L <del>F</del> *L <del>S</del> PE <del>E</del> E <del>K</del> R <del>I</del> RR <del>R</del> ER <del>N</del> K <del>M</del> AA <del>A</del> K <del>C</del> R <del>N</del> R <del>R</del> EL <del>T</del> TL <del>Q</del> A <del>G</del> RY <del>S</del> VG <del>C</del> S <del>F</del> L <del>K</del> LG <del>K</del> V <del>G</del> R <del>L</del> H <del>K</del> GP <del>*V</del> R <del>L</del> C <del>L</del> YA <del>A</del> F <del>P</del> L <del>S</del> LC <del>I</del> Q <del>E</del> T <del>D</del> Q <del>L</del> E <del>D</del> K <del>S</del> AL <del>Q</del> T <del>E</del> I <del>A</del> N <del>L</del> E <del>E</del> K <del>L</del> E <del>F</del> IL <del>V</del> A <del>A</del> H <del>R</del> P <del>C</del> LA <del>R</del> F <del>P</del> D <del>G</del> GA <del>F</del> PE EM <del>S</del> V <del>A</del> S <del>L</del> D <del>L</del> T <del>G</del> GL <del>P</del> EV <del>V</del> A <del>T</del> P <del>E</del> EE <del>A</del> F <del>T</del> L <del>P</del> L <del>L</del> N <del>D</del> PE <del>P</del> K <del>P</del> S <del>V</del> EV <del>P</del> V <del>K</del> A <del>S</del>

1913	9964	A	2859	3	1467	PHILQRATEKPRLSRSPRRSERAVTTLPLPSASASQRPPVSAPRPLARLCTATMMSGPNADYFASSSRCCSASPARDLSYSHPSA, DSFSFMSGMSPVNAQDFCTDLAVSSANFIP TWTIASTSPLDQLWLWOPALVSSLWAPSQTRAPSTFSESPPTAGAIVSRAVGVKTM, TOGRAQSIGURRGKVEQLSPPEEEKRRQIERNKMKMAAAKCIIRURRUEELDTLQAIETDQLEDWRSALQESTEIANELKEKBLEFLSLAHRHPAICKIPIDLGLPRKEBMVSGS VLJLITGGLPEGSVTPSEEEAFTLAPLNLNDPEAQGPQWEVPGGISRHGS*KDRGPFDDFLPSIHPGSPGLRTARSVPDMLGILPQF YGRQIRGAFSHSGSLGMGAHGRGWEL LCTPVTCTPSCNCLVHVFPRFLPRLGWL POLSCPQPGQQQ*AFI", "LAQLTHAAG PVRGOGGRGSRHPVQPLPELVHREKEHIFPRGF
1914	9965	A	286	259	506	PGYRRGHGGAEEGRQEPAARHNPAVRE DADGGD/RPRTAACPTSTAPPGT*GSIG QAHRDGARPAPAPRSHP*ASGAAAGPSG
1915	9966	B	2860	I	196	MAEGNHRKKPLKVLESILGKDFLTGVL NLVEQNVLNWKEEEKKYDADTEKD VRVMADMSPQEKQ
1916	9967	A	2861	I	988	MGSLEGNRKKPLKVLESILGKDFLTGVL DNLYEQNVLNWKEEEKKYDADTEKD KVRVMADMSPQEKQRMAGQMLQFTFNDQISPNKKAHNPMEAGPPESEESTDALK, LCPHEEFRLCCKERAEIYPIKERNNTRT, LALIICNTEDFHLPPLRNGADFDITGMKEL, LEGLDYSDVNEENLTARDMESALRAFAT, RPEHKSSDSTFLVLMMSHGLEIGCTGVHD EKPKDVLLYDFTQFQINRNRLNLSLKDPKV VIVQACRGA NRGEELWV RDRSPASL EVA S QOSSENLEEDAVYKTHVEKDFIAFCSSIP /KYSWCCHL EEEVFRKHCQS
1917	9968	A	2862	I2	914	GSFQRCKKGQRLFPMAEGNHRKKPLKV LESLGDKFLTGVLNDLNVEQNVLNWKEEEKKYDADTEKD KVRVMADMSPQEKQRMAGQMLQFTFNDQISPNKKAHNPMEAGPPESEESTDALK, PDCLKLCPLPHEEFRLCCKERAEIYPIKERNNTRT, LALIICNTEDFHLPPLRNGADFDITGMKELLEGQDLYSDVNEENLTARDMESALRAFAT, RPEHKSSDSTFLVLMMSHGLEIGCTGVHD EKPKDVLLYDFTQFQINRNRLNLSLKDPKV VIVQACRGA NRGEELWV RDRSPASL EVA S QOSSENLEEDAVYKTHVEKDFIAFCSSIP /KYSWCCHL EEEVFRKHCQS
1918	9969	A	2863	I2	1353	GSFQRCKKGQRLFPMAEGNHRKKPLKV LESLGDKFLTGVLNDLNVEQNVLNWKEEEKKYDADTEKD KVRVMADMSPQEKQRMAGQMLQFTFNDQISPNKKAHNPMEAGPPESEESTDALK, LCPHEEFRLCCKERAEIYPIKERNNTRT, ELKEIYPIKGRKQPTAHLGFFICITEFDL LPPRNGADFDITGMKELLEGQDLYSDVNEENLTARDMESALRAFAT, RPEHKSSDSTFLVLMMSHGLEIGCTGVHD EKPKDVLLYDFTQFQINRNRLNLSLKDPKV VIVQACRGA NRGEELWV RDRSPASL EVA S QOSSENLEEDAVYKTHVEKDFIAFCSSIP /KYSWCCHL EEEVFRKHCQS
1919	9970	A	2864	66	392	
1920	9971	A	2865	I3I	551	KIRGVSCPSAKPSGEQTQGHHNINTGFHP LPLGAVTSPVSPQGPGDRLLCPSPSSPEPAQ PAQ/C*PCSDSRSGPSPGPGKAWTVAPCA, PEPSVFCLOSPQFPEPVTWLAHPPSSERR ASSSSGDDDLPAOTENGTNGSGATR TCS

1921	9972 A	2866	943	1109	LMVLSDLDFIFKLKJ/WPGAVAHACNLSTLG GRGRWIT*GQOFETSPASIVKPPSLLKI
1922	9973 A	2867	112	1078	ESSRQALLAKPLSACAEQPARAEGVGAAT ALPVRWASGEMAPSGLAGPLAALVLV LWGAPWTHGRRTNVRVITDENWRELL EGDWMIEFYAPWCPACQNLQPEWESFA EWGEDLEVNIAKVDTKQPGLSGRFII  TALPTIYHVKDGEF*AVIQGPRTKKDFI NFISDEWKHSIEPVSSWFPGSVMLSSMS ALFQLSMWIRTCHNYYFIEDLGLPVWGSY TVFALATLFSGLLGLLCMFVADCLCPSK RRRPQPYPSKLLISESAQLKVEE QEADEEDVSEEEAESKEGTNKDPPQNAI RQRSLGPSSLATDKS
1923	9974 A	2868	I	448	
1924	9975 A	2869	I	536	
1925	9976 A	287	I	2072	FRRSPSPAAVSLGLGAVVSSLVNGSTF VLQKKGIVRAKRRGTSYLDIVWWAGT AMAVGOIGNFNFLAYTAVPTVLTFLGAL GVPGSILIASYLLEKLNILGKVGCILSC AGSVVLIHSPKSESVTTHAELEEKLDQS RVGGLPCASLLVMLAAAHLDPCRMG PPTSWSTSASAPCWADTPCLPPRASGWR PKTSCITTRPVREPSACAWYSWPCSAAA SSSSGTRNKALECFCDSVFGAIIYYVFT TLVLLASAILFREWSNVGLVDFLGMACG FTTVSVGIVLMRVEFKEFNFLGEMNKS DTWRQSSPLIVAPRDHFHLERGVQFQNM NSVMGSHLVMVALSPGVDFIPQDDFAA LLVTEFLANRLLVSGYPAATGQGTILQY GNTLMVMPKICRCLPRHECGSPGPVPGC APPSPHSTR/RRPPRSAD/(GPKCGTGT RERAPGAG*AEAAGPGEGGV/GAGAANA GAGAADAGAGGADAGAGGAGAGAG AGAGAGGAGAGGAGAGAGAGAGAG AGAGAGAGAGGAGAGAGAGAGAG GAGAGAGAGAGAGAGAGAGAGAG GGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGAG RAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGPVAAGAGAVCSQTIFTR SHGLHLWRPC
1926	9977 A	2870	I	5193	
1927	9978 A	2871	I	356	
1928	9979 A	2872	I	401	
1929	9980 A	2873	151	5459	AGARRGRGGEAEPLPGGLAAEPPRAR PDGLAEPAVGRGRVGSGPRTMSAKVR LKKLEQLLLADGPWRNESALSVENTLDV LVCLYTECSHSALRDKYVAEFLEWAK PTTOLVKEMQLHREDFEIIKIVIGRGAFFGE VAVVKMKNTERIYAMKILNKWEMILKR AETACFRENRDVLVNGDCQWITALHY AFQDENHILYLVMDYVVGGDLTLLSKF EDKLPEDMARFYIGEMVLAIDPIHQLHY VHRDIK
1930	9981 A	2874	I	764	MEKIPILRSIRAREQQAGKDVTLQGEHQ HLFEPGCGQTVPVLSVGRRPPDTPGETNS MEAAPGSPPGEGCPACSRCLRWEPPPGPR PCE*PEESPAGT/PAAPCPGSPG/GPAAQS LPLPGPLPQPSRSPAS/GPAPGHRJ/PEG GAGQAAEGQ/GPRGQGRSSLTQSP/PRPL AAVPMA/PRGLAWQDVSEPPP/GCSGL NSQKSPSLSERPGPPVSGEIA/GP/DGSSHS AQLQPPNRAKGLESVSVSLEGQSRGA RD

1931	9982	A	2875	1	1641	MKVCSSIAEVSDTTNPPSRNTNSGHMTSV LKQALKDPCTRHYRLVWLTLERTEVL DLFIERFCMTGGNSPICYLKAHTNLYL ADAEEKVRAIDEGLAAATIFSPSRDVVVS QSQLRVAFDGDAVLFSDESERIVKATL RFEHEKAHENKPLAQEQGSTSFDPKVE AFRSPSVPLPITGHISANVYQTPTCARRT TRPLVNWELIPRDNPLPPLPRQAFRDLGOS PAFSDAVATTSAPVFGDCHLSEVRGAE TRQPAFAMKRPKEPSGSDGESDGPIDVY QEGQLRSSKLEKAEVLQMTVDHLKMLH ATGGTGFDDARALAVDFRSIGFRECLTE VIRTPTIWLLPGRSKAIVESQSQQFTGAHS TLGEPTAKKA*SNPQVYMDIKIGNKPG CJQTLRSDDVPMITENFLYMCITH/SKGL GFKGSSFHRUIPQFICQGSDFTNHGGTRG KSIYKKKFDDENFIFKHTGPGLRRHGT CPMAHLALMEASKGQDQHPLRKRERA QOVHDVVKLTRGRGRGSLKRIARSCK DKEIGLCTLTWH
1932	9983	A	2876	1	949	
1933	9984	A	2877	185	339	
1934	9985	A	2878	673	1085	GEPTAKKA*SNPQVYMDIKIGNKPG CJQTLRSDDVPMITENFLYMCITH/SKGL GFKGSSFHRUIPQFICQGSDFTNHGGTRG KSIYKKKFDDENFIFKHTGPGLRRHGT CPMAHLALMEASKGQDQHPLRKRERA QOVHDVVKLTRGRGRGSLKRIARSCK DKEIGLCTLTWH
1935	9986	A	2879	141	1959	PRPANLKKGGQITMSATVVDAVNAAP LSGSKEMSLLEPKKMTREDWRKKKELE EQQKLGNGNAPAEVDDEEGKDNPHIPQYISS VPWYIDPSKRPTLKHKHQRPOPEKQKQFSS SGEWVYKRGVKENSITVKYRKGACENC AMTHKKKDCPFRPVRVGAKFTGTNIA DEHVQPQLMFYDGGDRDRWNGYNPEE HMKIVEEYAKVDLAKRTLKAQKLOEEL ASGLVLEQANSPKHQWGEEEPNQSOTE DHNSEDEDEDKYADDIDMPGQNFDSK RITVNRNLRIREDAIYLRNLDPISAYYDP KTRAMRENPYANAGKNPDEVSYAGDN VRYTGDITSMGQTQVFAWEAYDKGS VHLQADPTKLELLYKSVPKVKEDEDFKE QOKESILEKYYGOEHLADPPAELLAQ EDVYVEYSRHTVIGKQERAVACSKYED VIKIHNTTHIWGSYWKTEGRGNKCCCHSF SKYSVCTGEAGKEIVNSECINEITGEES VKKPQITLMEHLQEKLKEEKKKKKKKK KHKRKSSSDDEEKKHEKLKLKALNA*EA RLLHVKEETMQRDERKRPYNSMY*TSR PJEEMEAYRMKURQRQDPDPMASFLQ
1936	9987	A	288	1	390	ITLGPDSIIIGIWSGNQHOKQDPYIAMSMEHH TDWVNDIILCCNGKTJLISASSDTTVKVV NAHKGFCMST/YKDT*ASSLSGNKDSIYS LAMNQLGTIVSGSTEKVLRVWDPKRTCA KLMLKLIGHTDNNVKALL
1937	9988	A	2880	711	1140	GVGVCFPVPSLRLVLRWAACFALPGR SLKRSRSLWGWGTGHQS*EGELPWKAG WQRCFWRGGRGRTPLTCSPRTGCRRA AQEGAGCKARGAWWVRSRPGRAGRPLR RGGSRVTLNNSQMGSDATGETEWIKEMK PKKKKKMS
1938	9989	A	2881	1	649	MAGALVRKAADYVRSKDFRDYLMLRVT QOQYKVFNSGPWFESSSSYMSRPAHIS LIVSRVGSSTSFGQGLGAGMGVPLDP HENLYVDFYRGPHINCQNLLEANKMSFG RSQSEKAAYYLVPITQTRSFGKGIKME RSVVARVEHFHWGPVANWGLPIAAJNDM KKSPPEISGRMTFWVOPRNWLFACHATN EVAQLIQGGRRLKHEMTKATAS

1939	9990	A	2882	1	389	
1940	9991	A	2883	27	554	LAVGCRGVGLVGIVGSGKRQQRQGQPLGV SSAQPCAGALVRKAADYVQSKIDFRD YLMSTHFWFPGVANWGLPIAAINDMK KSPGDYSGVGRMTFALCICYSLTFMELP YKVQ*PLNWU/LCFACHGTVNEVRPSFIQ GEGRLIPNTRMDLKRAKGINQWGKGKN KVEFGDSLCPGCC
1941	9992	A	2884	1	162	QCAFKIASNPKIVVAMAKESVNAAFKIT LPEGIDDRKEGMTPVVEKRKANFKDQ
1942	9993	A	2885	1	196	
1943	9994	A	2886	148	427	CLLGFTTHASHDQPLPAGAGGTQRLTR AVGKSLAMEMVLTGDRISAQDAKQGL VSMICAVETL*CLLGFTTHASHDQPLPA GAGGTQRLTRAVGKSLAMEMVLTGDR SAQDAKQGLVSMICAVETLTVGGAIQC AEKIASNSKIVVAMAKESVNA
1944	9995	A	2887	1	1484	EATLKRPRPAGGPAAGWYCCPSAKTSGQL GAGGFTPSPLERHCPPLPSHLAVHPPAGAP VQGANREAPASPIFGLACCCGPVVDLNA AGTPRHTSPTRLPALARANFEVIIAERK GKNNTVGLQLNRPKALNALCDGLIDEL NQALKTTEEDPAVGAIVLTGGDKAFAAQ ADIKEMONLSFQDCYSSKFLKHWDHLT QVKKPVIAAVNGYAFGGGCELAMMCD IIYAGEKAQFAQPEII,LTIPGAGGTQRLT RAVGKSLAMEMVLTGDRISAQDAKQ GLVSKNCP*DTGWKEAJOFAKEIASNS KIVVAMAKESVNACRSPNLSCEIYILEGV AVPRACRWRLEAGYSEESILKERRLLSPE VFQKVVLWPERMLAPALEPORLPPSAHL DILCLASCKERAWNEQSQRSSWCRPRP ALALVSLFLVFLGYPPLSLFAALLPPHSLLS RAQFAISPFQFLSLLGAVGYRSTGFGH SKAVGSARSPLOQCL
1945	9996	A	2888	1	946	GRGVQRAMAALRVLSCARGPLRPPVR CPAWPRPFASSGAFYIIEERKGKNNNTVG LQLNRLPPLPVNWLCDCLD*LNQQLKF EEDPAVGAIVLTGIDKAFAAGADJQGK LQNLEFSRDCYSSKFFGRHWGPSPSRVK KPVIAAVINGYAFGGGICELCH*CVDII YAGEKAQFAQPEILIGNLPRVRGGTQED SPVPGKSLAMEMVLTGDPDPQPOD QASRVLSKICPVEITVVEEA/((QCAEKA SNSKIVVAMAKESVNAAFEMTLTEGSKL EKKLFYFNWLPLDDRERRG*PRFVGKE KGPTFKDQ
1946	9997	A	2889	1	384	VRDYNLNTEEQKAIKAKYPPVNRKYEYL DHTADV/QWIVFLHRA*YFFRHLHWGDT LEEAFFEQQCAMAMFGYMTDTGTVPEPLQT VEVETQ/GWGEFSLSKHPQGTIEVKAITY SAMQVYNEENPEV/FVJDI
1947	9998	A	289	1	1050	FRVNMQDGGPSPAEHSKAEASAGMEAR FLGLPDAAGSSGTPARRCPAPRPGAVS YVIRDEVEKYNRNGVNALQLDPALNRLF TARRDSIIIRWVNQHKQDPYIASMEHH TDWVNIDIVLCNGKNTLISASSDTTVKVW NAHKGFCMSTLRTHKDYVKALEYAKG* VELVASAGLDRQIFLWDVNNTLALTASN NTVTTSLSGNKSIDSYISLAMNQLGTTIVS GSTKEVLRWVDPRTCAKLMLKLEHTHDN VKALLLNDRDGTOLSGSSDGTIRLWLSLG QQRCIATYRVHDEGVWALQVNDATHV YSGGRDRKJYCTDLRNPDIRVLECEEKAP VLMELDRSADPPA1

1948	9999	A	2890	1	332	RDYNLTTEQKAIAKAKYPPVNRKYE*DDLQLSLPHFLDEWLKYKFSADEFFIPREVVKVLSIDQRNFKLRSIGWGEESLSKHPQGTEVKAITYSAMQVYNEENPEVFVIIID
1949	10000	A	2891	3	425	SFMAQEEDVDRDYNLTTEQKAIAKAKYPPVNRYEYLDHTADVQLHAWGDTLEAFEQCAMAMFGYMTDGTVEPLQTVETEVETQVHADEFFIPREVVKLSIDQRNFKLRSIGWGEESLSKHPQGTEVKAITYSAMQVYNE
1950	10001	A	2892	91	598	LNKRRRSRPSIRQSIGSTSRSRWLTSFLTYLDHTADVO*V*REPLPLKPRO*ED*MFQSWLHAWGDTLEAFEQCAMAMFGYMTDGTVEPLQTVETEVETQVHADEFFIPREVVKLSIDQRNFKLRSIGWGEESLSKHPQGTEVKAITYSAMQVYNEENPEVFVIIID
1951	10002	A	2893	359	938	TYFFRLHAWGDTLEAFEQCAMAMFGYMTDTGTVEPLQTVETEVETQVHADEFFIPREVVKLSIDQRNFKLRSIGWGEESLSKHPQGTEVKAITYSAMQVYNEENPEVFVIIID
1952	10003	A	2894	220	343	LKEKEKSMEKHF*QTDSSVSNLKHNHESPDIVNSLQWAMVS
1953	10004	A	2895	1	281	
1954	10005	A	2896	83	425	
1955	10006	A	2897	1	3600	
1956	10007	A	2898	1	197	
1957	10008	A	2899	1	963	
1958	10009	A	29	376	610	FPFWESQVRWIASASGVQDQPDQYGEILFLKLQKLGGHGG/IR*EDHLSLGGQGC
						KEPRLYHCTPAWVTEHYLVSKK
1959	10010	A	290	1	366	FPNSRSLWPECNRIKEESLVSASPGSFCKPHLDLALGLGL/GVGLMVELGLKLGFLGLFDLGLVGLGIGL/GVKLGLSDGY/GLGRFLGLGL*AGLVGLGLIGLVGLPGLGLEYFVLGILCICI
1960	10011	A	2900	49	247	DLTRNHSPQLQTVDVRWMIFFQV*YRRIKFVKRNASPSGI*NNI*TINTFVCIY*IFRKYKNNHII
1961	10012	A	2901	1066	1768	NPQSSSSSESR*DFPLRTVTNRLVQRSERVQAGQYTVDVEGHGCTFIQATLKVYNVLLPKKASGFSLSLIESKELLFDCF*P/RQVNLYQTGIRNKSSMVIDVKMLSGFTPNPCHPIELENKGQGQSDED*KSKNDNCPCSFSYLENVFGIOPDSFPFFC*AEQPLCSTFOPGPISHGLTDYYKEEYALAFYQHRTVVPVSE*DKAITRRVGEAISCNKLILLYQTWKIMNHLTS
1962	10013	A	2902	620	1124	EIPAPCLQAWVPQACREGPLAFRELLGGVLALSTPGERCSVSSEFETRACRTO/PCWGSPKFLSPPHAKPAITLRLPELKEAPWPWAPSLGPGLPGLSTPPSGIPCPPOCCQGHVACRGRLRPSPW*TE*PVWCWKMPRCPEKLPGIFGNETLYLPIVNWPTGTISFLSTY
1963	10014	A	2903	2	399	WKESEQRCEW*VARGL*ADLT*GFWHHLPGAPPWGLLTGGQQGRGHGRHGGWALSGRPPRGRFHWHLPGAPPWGLLTGGGQGRGHGRGGWALSGIPPLRQLQSFQVWAESPLQLPWGCVAGISVHTGVSWLP

1964	10015	A	2904	73	867	GRAEOTSDTHFFASTSACSHNLTMSCPN YCSGNNSNSGSLRTSRHPLTSIDLCPTSV CGDVLYLPTSSQDHHTWVTDNCQETCGE PTSCQPVHCETGNLSTSCGS/SH/CTTCP GPGCQSSFLPASFSSSLCPVSCRITTEVC/ RPAAVRPLRAVQ*FTSP*GDCVAQCLR PQFCLSKSCQPNQLTSGCCQFSSCLAYRP QSLHVVSLLRLPGLFSGCPLTHVFST VSSHLEHGPSPNICFLQSSILLHRSSSRA VCCSALF
1965	10016	A	2905	1	478	
1966	10017	A	2906	800	1209	LFSSGAVPQRTSPHQAPKNM/QTSGRLS/ NVAPPICLRLKNPPSARNGGHET*CPNSL NSNQQLVDLKLTVTDGLEKERDFYFSKL RDELICQEHESENSPVISGJICL/YATEEG FAPPEDDEIEEH/QQEDQDEY
1967	10018	A	2907	1	3961	MSKSHKCEQIKDQIRJRVPVISLPIKJHSQA EQLSHTAVCSCPAPRVCATKVVAWFQ MWMLLHDLVQMVPRSLQWLPHIETLFSN PLIYHSHELAPSFAEQRECKLAYMPVS SASAHLLLQAFDFNLSVSSLARNL ANSASVRIILKGKVVNNDCTHEADVYI ENGIHQVGRLEMIVWRGQGKLVIPQGIDT STHGHQTFMNATCVDDFYHGTKVMLLF AKGGFLFGFFILLLQLQTRLMASLAKS D
1968	10019	A	2908	48	308	NPRCPGGSRFVSSWCSVFPEAGGG*RK EPGMGRGAGYKQRGMGS*SKGPFAJMPF PRPRPGFVLPPPPLPDLNKGPHFSQKK KK
1969	10020	A	2909	3	214	
1970	10021	A	291	49	418	FMINPPNQVGRYRNIDNLTINIIYQKPLAP VILHGEIFKIFLTGIGVTQRYPLSLPFKV FLAALDRK*REGAGEEVNGIENKRKILSF VSDLMIVVENSKEKNGQLLELMRGICKT ATKLQKL
1971	10022	A	2910	312	387	
1972	10023	A	2911	3	216	NCLLRPKNKSVRWPGPGAGAALLRPSA ALGAGSRACSVPPAAPAQTPRQVSPASA WGPGRARSGRMERRMKAGYLDDQV PYTFSKSPGNGRALAR/TLIGPLGKLMDP GSLPLDSEDLFQDLHSFOETWLAEAQV PDSDEQFVPDFHSENLAHFHSPTRIKKEP QSPRTDPLASCSCRKPPLYHHGEOLCYSS AYDPQRQIANQVPCWCPLDSRPYSPPFG QSGNIS*DPLAPPSPPTLAMTSGNIAPISS SPWDICHSHTSQGG/APG/HPSQAPYQHQ LSEPCPPYFQOSFKQEYHDPFLYGTGGAS QAVGTRGGGSMGAQ/RYPGAGVVIKQE QTDFAYDSDVTGCAASMYLHTEGFSGPSP GDGAMGYGYEKPLRFPDDVDCVVP/ELK EGDIKQEGVGFARFREGFPYQRGALQLW QFLVALDDDTNAHFLIAWTGRGMFKEKL EPEEVARLWGIQKNRPAMNYDKLSRSL RYYYEKGIMQKVAGERYVYKFVCEPEA LFLSLAPPDNQRPAALKAEFDRPVSEEDTVF LSHLIDESPA*PPYSGLAPRPSVRAPGHA RYPPLRLQPRRPGLRSRPPLGAPAVRREG AAGWSGG
1973	10024	A	2912	119	444	GFGVGTTPALTCPTVPSYSPKARPS*TEL EPSSCRPOPCTQTLGPQAEQGNMQSSAPSL ASPSKQPLMLANRCCCVPRSRJHLCQIQ NRLQWDSREERGGDATWVSVSD

1974	10025	A	2915	1	574	GADGGGAFLRLSGPGP*APPGPSSALMMP SSCPWRTGALGPSPAGSRALGRCTSSVG PSPEWLRTSSPGCAYQNLENDEDGAQ ASPEPDGGVGTRLPGIPIAE/P/SIRSF/PV LOHHSAAAPSAPTTPAAAAGPNTL*SRRT AEWCWPWPSCSCLGPAGDPRRGNWR PPLPRCLQRQSSSCRAFLLVPGV
1975	10026	A	2916	355	511	L/FLETESCFVAQAGARWAVITHCSKL/L G/CPNP/PISAL*VARTTGMHSHTEP
1976	10027	A	2917	1815	2152	INKEMSGQARWLTPVIPALWEVKVVDH LRPGVRDHOPGQOSETPVSTT1QK*ARY GGMCL*S*LLRLTQQNHLNQGGRGCE LRSRYCTPAWARQSKTSSQEKKEKEM PW
1977	10028	A	2918	315	480	
1978	10029	A	2919	1	1845	
1979	10030	A	292	5	377	FMINPPNQVGRYRNIIJNLTNIQSKPLAP VIL/HGEIFKIFLTGIVTQRYPLSPPLPKV FLAALDRK*REGAEEVNGIENKRIKLSF VSDMIVYYENSEKEKNGPPLLEMGRGLSK NATKLQKLJ
1980	10031	A	2920	407	802	
1981	10032	A	2921	914	1134	QESLLLQFTKSSSCPSETTSARTLLSILLS AFWAKPFNKLSSGSKLSHIFLSSDPSK/A VPTSAYYVPVPKSLPH
1982	10033	A	2922	1	447	
1983	10034	A	2923	218	544	SGFSLSLRGSSISFSL/CFKVGMCVTPRCY C*SPVP*KPLIKPGWVSELPKPMNWASC SRTLASFLLQARSHWPWTMKGMETMEQ SKLRSQFCKPAAGAVDPRAVVHGT
1984	10035	A	2924	3	260	
1985	10036	A	2925	1	534	
1986	10037	A	2926	198	562	LKCGKQWSDPITSQTESQLLGSQQQL HQQRHLQGP*K*NRDSPLCFSLLSCP1PK TYTNRHILLP/SSSKSLCKFL*PA*ISPQKM GFSFLSQSVCKFSKLLCSASLKLKAFNSI QVTS
1987	10038	A	2927	72	270	
1988	10039	A	2928	325	535	
1989	10040	A	2929	492	696	
1990	10041	A	293	346	489	OLQAMAIFEYLKKTFLRPGTVPHSCNPS TLVGRGGWIT*GQELEASP
1991	10042	A	2930	822	1759	SSAEPSPSPFAPSQQTAAAGAPPLCAVS PMASASGAMAKHEQJLVLDPPTDLKFKG DG*VFRPEQYTV*KWCKRSKRHGFRR PFTDVTTNLKLRNPNSDRKVCFKVKIT VPS/RRYCVRUVNSGNDPGSTVTVSML QPFYDPNERSKHFPMVQTIFAPPNNTSD MEAUV/WKEAKPDELMDSKLRCVWFEMP NENDKLNDMPEPSKAVPLNASKQD/GPM PKPHSVSLNDTETRKLMEECKRLOQEM MKLSEENRHLRDEGLRLRKVAHSDKPG STSTASFRDNVTSPILPSLLVVIAAIFI/GFF LGGFIL
1992	10043	A	2931	2	417	FVAQOLQGDSLHFMQALY/GQHFPIEVR HYSQWIESQA/WNTYDRCPMELVRCIR HILYNEQRLVREANGSSPAGSLADAMS QKHLQINQTFEERLVLTQDTENELKKLQ Q1QEYFIQYQESLRQAOFGPLAQLSPQ
1993	10044	A	2932	1	855	
1994	10045	A	2933	1	810	

1995	10046	A	2934	224	2606	TMAVWIQAQQQLQGEALHQMQLYQHQH FPIEVRHYLSQWIEQSAWDSDLNQPE NIKATQLLEGGLVQELQKKAEEHVQVGEDF LLKIKLGHYATQQLQNTYDRCPCMELVRCI RIHILYNEQRLLVREANINGGSPAGSLADAM SQKHLQINQTFEELRLVTQDTENELKKL QTCQEYFIIQYQESLRIQAQFGLAQLSP QERLSRETALQQKQVSLEAWLQREAQQT LQQYRVELPEKHQKTLQQLRKQQTIIHD DELIQWKRKRQQLAGNNGGPPGSLDVLQOS WCEKLAEIWIWONRQOIRRAEHLQQQLPJP GPVEEMLAEVNATITDISALVTSTFIEK QPPQVILKTQTKFAATVRLVGGKLNVH MNPPQVKATIISQQAKSSLKNENTRND YSGEILNNCCVMEMYHQAQTGILSAHFRN MSLKRIKRSRDRGAEVSTEKFITL.FESQ FSVGGNELVFPVETLSPVVVIVHGSQ DNNATATVLWWDINAFLQEPGRVPPAVP DKVLWPQLCCEALNMFKKAEVQSNRGLT KDNLVFLAQKLFLNNSSHLEDYSGLSVS WSQFNRENLPGRNFTFWQWFDFGVMEV LKKHLKPHWNNDGPILGFTVKQQAHDLI NKPDTFTLRFSDSEIIGGTTIAWKFDSQE RMFWNLMPFTTRDFSIERSLADRGLDNLN LIVVFPDRPKDVVYSKYYTVPVCESETA KSVA LDGYVKPQIKQVVPFEVNASSADAG GGSATYMDQAPSPAVC/PPQAHYNNMPV QNPD*VLDTDGDFDLEDTMVARVVEE LNLGPRMDSQWIPHAOS
1996	10047	B	2935	123	219	XPTPTGMMTMDKSELVQKAKLAEQAERYD DMAAA*
1997	10048	A	2936	1	1815	
1998	10049	A	2937	1	510	
1999	10050	A	2938	107	961	VVGLGRKRSSRSAGSLGRVFPVCSPPTG MTMDKSELVQKAKLAEQAERYDDMAC SSERHVTEQGHERLQPKKRNLNSVAYK NVVGARRFLPGRVVISSIEHENREGMKK QQMGK*EY*EDRRQNLQDICK*CFWEL LDKYLIPN/AVTQPE*GVLL*KLKGGYF RYLSEAV*DNKQTTVSNSQPGFTREHF EISKKEMQPTHPIRLGLALNFSVYVEIL INPEKACSLAKTAFDEAIAELDTLNNEESY KDSTLIMQLLRDNLTWTSENQGDEGD AGEGEN
2000	10051	A	2939	208	1178	ERGRHLARSFARKGLCSLQPSHGRVSRD LGRYKKCCLPIRLWIEKQEEHWTWSQGM TMDKSELVQKAKLAEQAERYDDMAC MAKAVTEOGHESNEERNLNSVAYKNNV GARRSSWRVVISSIEQKTERNEKKQQMG KEYREKIEAELQDICNDVFEVLEQISLFP NATQPKVKVFLLEK*KGDYF'RFLF*K WQS*RQQTQPTCWEITPQQLSPRKOFEISK KEMOPTHPIRLGLALNFSVYVEIL PLKAW*AWAKTALCFRHF*SNLLNL DTLEWKSLLKDSSTDWSQQLRUDNLTWL DIKTRGDEGDAGEGEN
2001	10052	C	294	140	172	
2002	10053	A	2940	1	459	IEIHKCCGIPAVLAAPAMGLELFLDLVS QPSRAVYIFAKKNGIPLERLRTVLDLVKGQ HKSKEFLQINSLGKLPPLKDGDFILTE/SA NRKSYVLQGGCWHTEMRFSKCKAEGPA KRSRASILYLSCKYQTDPHWYPSDLQAR ARVHEYLGWHAD
2003	10054	A	2941	2	310	
2004	10055	A	2942	205	454	

2005	10056	A	2943	5	437	AQESRDCGDHDIDRATALQPGQQSEILLLQRLPPENAVD*VALEGSQLP*TLACLLSCKYQTPDHWYPSQLQARARVHEYLGWHADCRGTFGIPPLWVQVRANRLPLSFLAPVPLSLHVVKLCTDKTLSVLGSASILRCSIHTS
2006	10057	B	2944	307	447	XSAIIYLSCKYQTTPDHWYPSQLQARARVHEYLGWHADCRGTFGIPPL*
2007	10058	A	2945	2	384	
2008	10059	A	2946	1	1278	MPGLGFREKKGGSGRTVIPASRGCGLPAPI LCTKWEPLSGSSRCLAAAALQGTVWT AESSLTTPAFQSRRGWLPIPYFPARDPAT AAHTALSAFTAIPAVLAAPAMGLEFLA DLVSPQRASVYIFAKKNGNIPLELRTVDLY KGQHKSKEFLQINSLGKLPILKDGDFILT ESELALIYLSCKYQTADHWYPSDLQGF GARVHEVPWAWHADLHPVGIFWYYP WGVQGVWGHSLGVQVPEEKVGQTQRT AMDQALQWLEDJKFLGDRPFLAGQQVTL ADLMALEGS*CKPVALGYELFEGRPRJ AAWRRIVEAFLGVAELCOEA/HTSILSIL EQAIAKKTLPPTSPVPEAYQAMLLRNRRGS PEGSGMGAKIESNKDSFCYLLAPFYLSLL PQSLSLKLQCEALHRQRHSSVLWQVLL LRCKHT
2009	10060	A	2947	298	456	NIYQ*E*K*FKNGQVWLGAIVVRCANST LGR/WIPWQQEFTSLANMVKPRLY
2010	10061	A	2948	59	190	ARSFHSDAPQGHLECHWCPGVLEL*GHR NPDTCPHLEQGQISK
2011	10062	A	2949	319	460	HFSIYHWFYTEKYKIKITHQDYLQKFIIY CTEEKHAYH*PNKILFIT
2012	10063	A	295	2008	2438	WSLHRPRGPLLWHMPRVPPPLTGL*SSP HDSVGQPWKSPPPTFSNSPDPPENVQN HPGPVAKSPFPVQQRNGH/PPKR/PTWGS STCWGEVIRSGSPPPPTKPVWPTSCIEFGS VLPPEDETVFPHFPVSLILFAISFALVCG D
2013	10064	A	2950	78	3703	FQELGAREPFGNMYDADEDMQYDEDD DEITPDWLQEACWIVISSYFDEKGLVRQ QLDSDEFIQMSVQRIVEDAPIDLQAE OHSAGEVEEPPRYLKFEQIYLSKPTHW ERDGAPSPMMPNEARLRLRNLTYSAPLYV DITKTVIKEGEEQLQTQHQKTFIGKIPIML RSTYCLLNLTRUDLCELNECPSPDPIGR YFHUNGSEKVLIAQRKMATNTSFCRLQK TDSKYAYTQECRSCLENSESSRPTSTIWVS
2014	10065	C	2951	162	293	MGNLLKVLTCITDLEQGPNNFLDFENAQP TESEKEIYNQVNVAI*
2015	10066	A	2952	286	1327	AGAKFFP*E*KVADAQPTESKEIYNQV NVKLKDAEGLIEDLQSYRAGGAGHEIRAEI QHPADEKVAKKKWVGAVVPLVGKLLKK FYEFSSORLEAALRGILLGALTSTPYSPTQH LEREQALAKQFAEILHFTLRFDELKMTN PAIQONDFSYRRRTSLRMRBNNNYPAEGEN EVANELANRMSLYAETPMLKTLSDA TTFKVSENLKPIENTTDCLSTMASVCR VMAGNTIEYRSQIQLQNEETVFSLSWRAM VGCS*SYSDHRTSSGEAFCCLKLPKFDMK GCKVLIKLDQPPNSVVEGLLKSILRVTTKH LEWMRLPPSLKLKSMLPITILGIKHPAVDR RQYSAMTENAVF
2016	10067	A	2953	75	478	AVKMCDFT*DQTA*FKEAQLFDRTGDG KILYSOCGVDPKSDEMNVKVLDFEHFLP MLQTVAKNNDQGQTY*DVEGRLRFDFKE GNGTVMGAEIRHVLVTLGEMKTEEEVQ MLVAGHEDSNGCINYEEVLRMVNLNG
2017	10068	A	2954	2	343	

2018	10069	A	2955	34	353	
2019	10070	A	2956	2	303	
2020	10071	A	2957	1	999	
2021	10072	A	2958	255	528	ARYKIHTGKGTDGETGKVLSHsapcgr CSRPFWARHPDRSMHKRIVDTNQLLSS CPATSISTSSSVNVLPRCDFPFDQTAEFK EAFOLFDRTGDGKILYSGCQGDVMRALG QNPTHAEWLKVGLNPKSDEMNVKVL FEHFLPMLQTVAKNQDPGSPGMGFMFSKE LRVFYKVEGNGTIVMGAIEIRHLVLTPTG^ KLTEEEVEMLVAGHEDSNNGCINYEA RHTPTVGTGPWAGASSAWC
2022	10073	A	2959	26	518	
2023	10074	C	296	165	290	MCHRAGPASLSAGOFIHFVTPMAAPRI SAVCGPESRHQG*
2024	10075	A	2960	453	744	
2025	10076	A	2961	736	1062	
2026	10077	A	2962	295	782	PLLCNPDPGWYWWVKQSEISKEQEM DARPKDLGFKEGQTIKLCIGNTNKGG ASKPRTARGGGLSLLPPP*GKVTIPPPS /VKLPSTNHVTPPSIPKSNHGGSDA/DIL DLDSPAPVTPAPTPVSVSNDLWGDFS TASSVPNQAPQPSNWVQF
2027	10078	A	2963	192	324	
2028	10079	A	2964	1	1044	
2029	10080	A	2965	1	811	
2030	10081	A	2966	1	750	
2031	10082	A	2967	493	1946	
2032	10083	A	2968	539	1215	
2033	10084	A	2969	414	1762	
2034	10085	A	297	883	1095	GSGV*DQPGIQHGKPPSLL*LNQNL AERGG GHL*SQLRRLRQENHLPNGRC SEL SRHCTPAWATRAKL
2035	10086	A	2970	449	1305	SKSRMSAEVIIHQVEEALDTDEKEMLLF CRDVIAVDVTPPNVRDLDLNDNLERGKLS VGDLAELLYVRVRRFDLLKRILKMDRKA VETHLRRNPHLVSDYRVLMAEIGEEDLDK SDVSSLIFLMKDYMGRGKISKEKSFLDL VVELEKLNLV/APPDQLDLLEKCLKNIP DKTKIQKYSQVQGAGTSYRNVLQAI QKSLKDPSNFRNLHNGRSKEQLKEQLG AQEQEPVKKSIQSEAFLPQSIP EERYKMK SKPLGNLPGLDWHWALRTELSFEDTFTS LGY
2036	10087	A	2971	473	1164	SKSRMSAEVIIHQVEEALDTDEKEMLLF CRDVIAVDVTPPNVRDLDLNDNLERGKLS VGDLAELLYVRVRRFDLLKRILKMDRKA VETPLFKDPLVSDYGVLMMAEIGEEDLDK SDVSSLIFLMKDYMGRGKISKEKSFLDL VVELEKLNLV/APPDQLDLLEKCLKNIP QK*P*RQKSQKYKQSVQGAGTSYRNVL QAAIQKSLKDPSNFRMIPVYAHCPDL KLNQNSM
2037	10088	A	2972	482	692	EKPL*SYLSSFFFHLEMGSHSIPRLVCSGV IVAHCSLQLLGSSDVPTS/ASR*LGLTGSH ITIPSLGLFLN
2038	10089	A	2973	1	358	AQLVEFGEHISMAPPAHFRALLYHPTGAT LVPHPASISQHSPPSPWGNRA/GP*P*QR HLTAPRSPHPFRHRPKGDPRENPSRW PEVPSLPQTHVVPGQAAWDTNTTVCK NRSTKPDQ

2039	10090	A	2978	136	500	GTLPNSSLCESNNGHPRQRGRGSCPSRY TGVPPSPRLSRIQSWRJHLHPPSPTRPSY SSPQASASPVGLRGHFAQTWTTCRSRSP SPVRFSSGSDGEKRLQSCSPHGNDPGAA CISRPYY
2040	10091	A	2979	242	9991	FKLIELHESDFMEFNNTTQEDVQERLAY AEQLVVELKDHIRQKDVLQQLQKDEALQE ERKAADNKIKKLKHAKAKLTSNLNYIE EMKAQGGTVLPTEPQSEEEQLSKHDKSST EEEMIEIEKIKHKLQKEELISTLQAOQLTO AQAEOPAOSSTEMEEFVMMKQQLQKE EFISTLQAOQLSQTQAEQAAQLSSMQQVV REKDARFETOVRHLHEDELLQLVTAQDVE TEMQQLRVLQRKLEEHEESLVRGAQV VDLQ
2041	10092	B	298	191	494	MKLRGAGSCKPKPGSSGWGPAVGEFHS VQNICARREYQRQDYMDAMAECQKLD AEFQKRLEKNKIAEEQTAKRKCRQKL KEKLLAKMKLEQKKQEGPX*
2042	10093	A	2980	3	211	
2043	10094	A	2981	1	519	
2044	10095	A	2982	291	686	GLGTFAYISQDVWKSLSYVQAEVCCRGR VFLVCSCGSCWKSRSRCEPPYAVLSIOVE AAHMHEIWCRDSDRDLPWESSCSLLIE KDPF/SPQTQDPKKHLTNFKSDKGDTF YPTWTQNSGAGHGLRQPSLGV
2045	10096	A	2983	1	639	
2046	10097	A	2984	2	423	GFLVLLTSRMKLRLLAKQRHHILSVDPK LRRRSRIGKAAPFWCLIIAGTPLIHPRFK GVRPCRDACLGPSPLAASPALFGEQEL ATSARNLTPRPNACSPGFLLSRVHLCC TPLEI*PPGQGMPAAQDSS*AVSICAGPH WKSDCSTHLAGTIPRAPGILAQGSLS IFLA*
2047	10098	C	2985	80	106	MRMKPGLD*
2048	10099	C	2986	259	531	MSPAHKNFQTPERQRPQGIPPEPPPGACV KCQKSGHQAKECLOPRIPPKPRPICAGPH WKLDCPTHLASTPRAPGTLAQGSLS IFLA*
2049	10100	A	2987	3	505	
2050	10101	A	2988	1	1056	
2051	10102	A	2989	1	1482	
2052	10103	A	299	2	478	SGRLPWAQPPPRCDHRGPRKSRRSSS PRMRREEQKLKLERLMKNPDKAVPIPEK MSEWAPRPPPEFVRDVMGSSAGAGSE FHVYRHLRRREYQRQDYMDAMAECQK LDAEFQKRLEKNKIAEEQTAKRKCRQKL PQS**KKNLLAKMKLEQKKQEG
2053	10104	A	2990	399	567	ACYKCWKSGHRVKECLOPRIPPKPCPIC AGPH*RSDCSTHLLAATRAPGTLAQGSLS
2054	10105	A	2991	1	468	
2055	10106	A	2992	1	984	
2056	10107	A	2993	1	900	
2057	10108	A	2994	1	522	
2058	10109	A	2995	3	1150	
2059	10110	A	2996	3	500	LEGASYGETKADVAEGKSQKKATEWRS OGQRKGEETSQLKDKRTNQLSVKRT NQLSVIWTNQQDVGSYANPLMAAEPAQ AVKLGWRPSPKPHIGDKSVFVLLWMG SVQOGQKIGP/PSQGNACRPNSS*SHVP CGGGPHWKLDCSTHLLAATPRA/GTLAQ GSL

2060	10111A	2997	3	603	GHSRPRNWSQWSPRFLWLEAHRQPSGSP DSAELRSQVSDCLGTSRHRGTGALFLA LIAASCYVARFIRVRPHRDAYSLOQRLS DISHPTFOGCQTTQQRLLWPSFTLSGKSRF SGEGATTSPAHKNFQTPEPQWPGIPPEPP PTGACYTCRKSGHWAKECPQARIPPKPH PICVGPH*KSDCSTHLAATPRAPGTLAQG SL
2061	10112A	2998	1	669	
2062	10113A	2999	1	762	
2063	10114A	3	32	474	LYALRNQIKPPPHVTGGQ*QKQERTKPA WRPRPR/GPPFIALIGFCFSSVPVAWEL RVEPPGGHWPPLSPLGEVRGEWRRPLSGL ASVGOWLVRSPPEGGGGGWAGSPQVS GWPPPSAHLRNPPPLSLGDILPAPQHPALS PGPKLCG
2064	10115A	30	147	766	GALHLJRKGSPLHGQAHKHVAQQQRGIL SRVHRPTHVHTQGRKATRGLGSAHGR APPHSPFLPLVPCVCSVWHCETPRPCPLL PCPPPSGASTSRTASSPVPLS LTD+*VLS TEFOVSPGLTHKASLPRSDSDAKTSSH PRODWPHPMVDCAALESWTQPLWMFCG SRLAFHDAPAPAHMRATWASRAIAPAARP GPHLGLAAASC
2065	10116A	300	72	409	CVSSETGFILYCRN/DCKWDAPILETVWFF VRS*TLDMNCTPAJPLFIVPLEMYGH Y*MTCTRIFMAALFIATINQKSPKCSINSI HATKYYIAMKLIQLYPYVATWINKV
2066	10117A	3000	1	519	
2067	10118A	3001	1202	1315	
2068	10119A	3002	1	930	
2069	10120A	3003	132	248	
2070	10121A	3004	3	439	
2071	10122A	3005	1	357	
2072	10123A	3006	1	765	
2073	10124A	3007	1	1434	SVAFVFACPAVDYLVKISWELQGDEEQD GLRMWIMWQTQLQTKTDYEEDVRIQNAINI AQGASEIAQQRQSSAAKPRRSGKESVRE PWARVPGALGVAAARKYQKMKGIEJKRR ERLKCGAKIERRKRLKDREVGEESKKRP LTOFEIPEPKVTVMPKNSQFTGGSEVSIM CSATGYPKPKIAWTVNDMFIVGSHRYR MTSDGTLFIKNAAPKDAGIYGCCLKAPK LMVQSELLVALGDITVMECKTSGIPPP QVKWFKGDLERLPST/CFLLSILAP/PLOQ LPSLNFSFHDFLAAATPRAPGTLAQG SLTDSFPDLLGLAAED
2074	10125A	3008	166	421	RPRSERLLWGTSPLS/CALTL*GDPPTTS PQTNQLKEHLTNFKSGPHWKMDCPTHP AAATPRAPGTLAQGSLTDSFPDLLGSAE D
2075	10126A	3009	1	434	
2076	10127A	301	92	617	DRVLSSLPRLECGSILAHCNVCLP/GFK RFSCSLPSSWDYRHTPPCP/V*LVLVE MGFRHFSQAKSRSL/TGDPFASASQKCW NYRRDNLA/WLASALNKVINNLLKEIPSF FLVQLSGFSRSTLLQQFLNFNYHTLVYS NNLPIMQITFTQDFGRISGKPFPGIMILCN REILYIM

2077	10128	A	3010	1478	2240	WQVPLSWGRGKYPSTPSPLAASPTFL GQQGVPLNPFSTLSGKSRFPGAGASTPQ PLLLHPORQVPLSWGRGKYPSTPSPLA ASPAFLGQQVPLNPFSTLSGKSRFPG QETPNRLFPHPNLLSLHPNPLFPHPDPLS LCPNPLPCLNPFSALEGKNPPPLLRVST LFSGLASFTMGACYTCQKSGHWAKECP QPGIPPKPCPISVGPH*KSDCSTHLLAATPG APGTLAQ/GLTDSFPDLGLAED
2078	10129	A	3011	1	624	
2079	10130	A	3012	321	512	
2080	10131	A	3013	1005	1251	KGGWSQRHSQGACYTCRKGHWAKECP QPGIPPKPCPICVGPH*KSDCSTHLLAANP RAPGTLAQSLTDSPFDLGLAED
2081	10132	C	3014	18	56	MAINSIRSLQLM*
2082	10133	A	3015	188	364	
2083	10134	A	3016	602	2459	FWGEGEKATAFLICNLAGLRCVPDMN S QGSDSNEEDYDPNCE\KEEEEED DP G DIEDYYWGVASDVEQQGADAFDPEE YQFCILTYKESEGALNEHMT\SLFLSL KVSHSSWLNLYLVNFH WQVSEILDRYK SNSAQLLVEARVOPNP/SQKHVPSTSHPH H CACGGGMQVCAKRENLL/SLWACQL*F CRSCWEQHCSVLVKDGV GVGIVSCMA Q QDCPLARNTSGTFVFPULLPNEEFEKRY R RYLFRDYYVESHYQLQALCPGAA DCPMIV IRVOEPRAR\ARVQCNRCNEVF CFCKCR QMYHAPTD CATIRKWLTKL ODDSETA N YSAHTKDCPKCNIC E\KDGG CNHM Q CSKCKHDFCWMC LDW KTHGSEYYE CSRYKENPD VNQSQAQA RREALKYK LFYFERWEHNHKS LQLEAQTYQRIHEKI Q ERVMNNNLG TWDWQYLNQAAKFPFGQ G SFSSL LQCRY LQTY PYAYM MESG PRKKLFEYQQAQLEAEIENLSWKVERA DSYD R GDL ENP DAITE PTGGTNPCLKD F HDTLSWDV DVGVRKISLARSRAAH TACLAGSAFHDPQAT QG T PERHWQH LLVDFCFL FSL FVST QGR RPC
2084	10135	A	3017	103	769	G PCCPII QQL LQFCFKHF FS G PLC F QLCK L MP SKS L V MEY LA H P ST L G AV GV AC G ML G W SL RV C F G ML P KS KT SK T HTD T SE A S L G RO P G SP *F L V R N *L *R WG K GER G P S A H A V S P T K Q S K K S P E M A Q N N G E W W A S P K V G G S K V P D E T L I A L V A H A K M G L T V S L O D A G R T Q I A P G S Q T V L G I P G P A D L D K V T G H L K L Y
2085	10136	A	3018	99	478	
2086	10137	A	3019	2	87	
2087	10138	A	302	367	619	ETRCRGH P PP D RE P PP S *PG Q SS PG V P S  R P S N K A Y P R L P R Q P G L S F R S T P P R P S P  K P C P P H I R H V Q P T K T S A V S L S
2088	10139	A	3020	1	921	

2089	10140	A	3021	I	2203	MGGASARPAAPSGRWGVPLPGRPFWEV MSPSARPPIPRLGCVPNSSLRTGHDDGG FVEQRRGKGIDSEGQLRLKLVFLVFSW QLVMAFDKAELPSSPKVVLVLTVTTRATG GVGLQTLRLRQERPGIGQLGALCLICTR LCGHEEMTSTFNPRECKLSKQEGQNYGF FLRIEKDTEGHLVRVVEKCSPEAKAGLQ DGDVRVLRINGVFVDKEEHHMQVVDLVRK SGNSVTLVLDGDSYEAKVTRVDLKE GQSQKEOGLSDN1SPVMNGGQVWTWQ PRLCYLVKEEGSYGFSLKTVQGKGVY MTDITPOGVAMRAGVLADDHLLIEVN NVEDASHEEVVEKVRGPPRRVGYGFD QQMAAALQKRGTLTVKNCQTESNNNNK KRPHKNIQSAASKJEELEKKNYFKIQQY SKKEPVQVKTIVSKKNKAGGIITLDPDFK YYKVTVTKTAACRYFHWKMNLCV1LIL /VFPMPFLQLAYFIVSNIRLJHKKQRLLP SCLLWLTFMQLFFWKLGDPPFLSPKHOIL SIEQLISRVGVIGVTLMAALLSGFGAVNC YTYSMSYPLRNVTDTDLALERRLLQTM MISKKKRLRGPGVVGFLIYSPVGOIA DLTLIQQEVDALEELSRQLFETADLYAT KERIEYSKTFKGKYNFNLGYYFESIYCVW KIPMVFWSOHISFILVGHIIVTSIRGLLITL TKFFYAISSSKSSNVIVLLAQMGMYFVSSV SS
2090	10141	A	3022	2	215	
2091	10142	A	3023	50	1598	GGLWPQRAVAGSGKWRQEPSPSLIFAMS FLDSSIMTSQIIFFGFGWLFMMRQLFKD YEIRQYVQVQIFSVTFAFSCTMFELIIFEL GVLNSSSRYFHWKMNLCV1LILVFMV PFYIGFIVFSNIRLJLSPSLSQVA*TIDW FSCLLGLVTFMYYFGVKLGDPPLSPKKG LSIEOLISRVGVIGVTLMAALLSGFGAVNC PYTYMSYFLRNVTDTDLALERRLLQTM DMMISKKKRMAMARTMFQKGVEHNKP SGFWGMKSVTTSASGENLTLIQQEVD ALEELSRLQFLETADLYATKERIEYSKTF KGKYFNFGLYFPSIYCVWVKIFMATINIVF DRVQKTDPPYTRQIETVNYLQIOPDVFK WSQHISFILVGHIIVTSIRGLLITLTKFFYAI SSSKSSNVIVLLAQMGMYFVSSVLLIR MSMSPLEYRTIITEVILGEELQFNFVYIHRW FDVFLVRRFSLGLFLPFLGHKQAPEKQ MAPLNLPYLTQDKRPGFQKPR
2092	10143	A	3024	I	158	
2093	10144	A	3025	2	1067	AELGTFAGTQSGAWRAERSWHNRGP MMWRPSVLLLLRLRIGAQQKPSPDAG PHGTGRVHQAAPLSDAPHDAAHGNQY DHEAFL*REVAKEFDQLTPQESQARLORI VDRMDRAGDGDGVWSLAERAWIAHT HQRIILDSVSAAWDTYDTDRDGRVGVWE ELRNATYGHYAPGEFHDVDEAETYKK MLARDERRFVADQGDGSMATREELTA FLHPEEFHMRDIVIAETELEDLDRNKGDG VQVEEYIADLYSAEPEEEPAWVQTERQ QFRDFRDLNKDGHLGDSEVGHWVLPFA QDOPLVEANHILLHESDTDKDGRJLTAKAE ILGNWNMFVGQSATNMGEDLTRHHDEL
2094	10145	A	3026	2	860	

2095	10146	A	3027	2	1681	FGTLGSAFFPESCPFQKEDGMKIFQIQQIH VQERVFKDVAVVFTKVVALLLDKAQI NLYQDVMLENFMNLMLWIPLPVPSFLQG SANGESQOEIQGRDKSEVRIFIPPGFSLEV AWEWLYSISIDQRDAHPKTDPLRPEEA QRKSLSRNVKMHCFCVKPRAAPQTEPTLE PTLPLSPYGVPRVPWMRKEAYGLQSP SPARSSGHQSQGYPGEDLHRAEQRPERFA GSAWTWSLQRLATWKRIQRTGONTWLE ALANLLANMTQLPGHIFSTFLVSAPHPAA EKPLLHSILTHRPHILLATVTLPAEEAP LMADITAQAILTPQLCSGTLLAHVAAR AHADTNLQHVGIPAGDTTGDMASMTLL PGSDTVDLKDTAPCIVAAPVPMAMAKKG QGIAQIAISEGANPRPWQLPRTGPVNV GEKGKCGVGAPEVPTEALPSGAVRGGPPS SRPOTHQQLPCKAWKRCRHSTPAHENSQ VGYTLQSHRGRDAQGLGSSLASACLD VRHGVKGDRYFRTLRFNDCPAGFTGMG PAAPLFCLISPFQNQGJYPKAVAPLYLGS N
2096	10147	A	3028	51	569	SLRTVPPHYLQGSPOTPIPPSSLGPSAGTR RVEVICVAAPNEQEGESKSGGARPVTCIDS QNRPCCPPPPSPALPQADPSLKTWLLN HIRWTDMSMCMEDSS**GFK/PNKDSIK VQVRLRGVQVGHCMCGAALPSTSLLS CLTPFPAPLNSRHTTLAPPPLQPENPQA RTP
2097	10148	A	3029	2	395	
2098	10149	A	303	2	519	FPIFLFLLLLALAFFVALTTTRRIQGVQPTL VLAQKRVNTSRPHD/GS/QPPTSASFNQ LNPTINSTPQLRSHVASYVG*KQMQYP H/PQHAPAPPQPCP WQVDTFLPAPTRPL LGSGPSPSSRSPGPPPPAGKGPAPGPE CPPTAQRPPTT/RQYLGPLFKGDP/RNSPRE KPRS
2099	10150	A	3030	2	1038	GLEPFSKLLSFVIQNAVFTLAYLVELCG LCYRAFTKERDKFYLRSRGCSKSCFRCRL KIKSPPLPDTNLLLVLQFILPDAGTKLD*V NNPEQADDLSCTWDVGTAAAMECVRQY INEVLDFMADMHTLTKLKSMMKTCSSQA SDEDTFCGHGLVGLAQIAAMDISRGNH RDNKA VIRYLPWLYHPSANQQGPKEFI ECVSHIRLLSWLLLGSLTHNAVCPNASSP CLPIPLDAGSHVADHLIVILIGFPEQSCKTS VLMHCSLHFHAFIAQWLTVYCEQSAVAT NLQNQNQEFSTAILTALEFWASRVTPAIL QLMG/HINKVMGRKWVLLSM/WISLMGG NLPGNAIWT
2100	10151	A	3031	3615	5322	EVPPNPACYQHQQA*SVCLCLHLKSSLTSS RR*CTDKCHDCGALIEYEDEETLGLAIV VLSTFIHLSPLDAAPLLDIMOVSQVRGLAS STTFSNQAESWPPTASSRSCSKARSKVIIH PLRQAOPICLIPDTQTLNPIVDFPDGTFL RTLASSLMDFNELSSIAALSQLEGLNPK KNLPGAGAMIRCLENIAITFMEAALPMDS SSLWTTTNOQFTFAKLPCVLPKLSLLE PFSKLLSFVIQNAVFTLAYLVELCGLCYR AFTKERDKFYLRSVVLLELQALKLKSP LPDTNLLLVQYENKMNKEAERLVLKL LNSAQAOQFOFICADAGTKLAESTILSKQ MIAASVPGCTAAMECVRQYINEVLDIM ADMHTLTKLTSVLMHCSLHFHAFIAQWL WTVCCEQSAVATNLQNQNEFSFTAILTA LEFWSRVTPSILQQLMAHNKVLPWMWLPM IQSNIKHLSAGLORLQIAQNHVNHHSILR TLPQSGQSSAGLAALARWKWLQCTQFKMA QVNENPVLGKQPLNFILYEWTPSAPQCQH SGLAIMGLKTNNLDPQAGWGNHIGLYL

					NPLS
2101	10152	A	3032	3	1078 FSSVFPAAJEPGERASARRRSRAGCLA LTLPAALLVTHQVPAEAAVSRAMAELJLT ALESIEMGFPRGRRAEKALALTGNQGIE AAMDWLMEHEDDPDVDEPLETPLGHIJA GREPTFSEQGGPLKDLVLAAGEGKPAALS *EEERQEQTAKRMFGAWLAQKGSRREVRE EREGREALERERORRQRQQQEELSAARQ RLOEDKUMRRAAAEERRREKAEEELAAR QRVREKIERDKAERAKKYGGSVGSQPPQ VAPEPGPVPSPPSQEPPTKGEDDKCRI QVRLPRWDPH*PQTFRAREQLAAVRLY VELHRCGEELGGGARDPVPQIASVAFPVR AFLRSLTMRPQELGMAAKTRNQD
2102	10153	A	3033	2	565 JHFQQEHWPSQLLRESLEDMMHLHSALG LCLLLTVSSNLIAIKKEKRPPQPLSRGJ WGDDITGVQTVEEGSLLCSKK*GSH*WV IHHLGDCQYSQALKVFAQNEEIQEMA QNKFIMLNLMHETTDKNLSPDQYVFPRI MFVDPSTLVRADIAGRYSNRLTYEPRD LPLIENMKKALRJLQSEL
2103	10154	A	3034	73	262
2104	10155	A	3035	29	867 PLEGIADNRFPHGESTLPLATFCSPSAPEL ASMSVVPNRQSTQWPRGVTFQFNKYI QQTKPLJLIERTINLYPLTNYTFGTKRAP LTRRTTSVAAARFQRIEGKNFDKIGMRRT VEGVLUVHEHRLTPWVCYLLQLGTNFLP NYLGWLNLTPGEDEVVEGLKTA**PEIPG SVQDGVLQD/WGPLTDCHWVTTWW/RP KFLNPPSVSHIFFPAHT/KPKE/HIRKLFPG SSLQEKAALVLQFPKPKTSW*PATPLFELY DNAPIGTVPHISLQLLSRFNFYIN
2105	10156	A	3036	2	817 RAIPKMAAVKDCSG*GEMATGNRRL HLGPEAVFVYYFSY*RKMVHYFMKQP GNETADTVLKKLDEQYQKVKFMELNL AQKKRRLKGQIPUEIKQTLIEILKYMQKKK ESTNFGNRPFFAGRLTLYLQQLSLVPP R*RG(CLGLGANVMLEVDIDEAQALLGK DLSTATKILDSSRGRTLTLRDQFITT VNMRAGLJLJGDVKKEGNKDUDSTKNKA LMLGQFKNVGLVFPNMFIFKYPFIPYRFD INFGMFNQPRNFKEKINTILFY
2106	10157	A	3037	3	468 ERJMEWHRHTMTECSAQEPKSHIDYLRL LVLKLYRFLARKNTSTFNQVVVKRLFMSR TNRPLLSLSRMIRKMKLPGRENKTAVV GTITDDRVQEVPKLKVCALRVTSRARS RILRAGGKILTFDQLALD/SPYVRSKGRK FERACCRARRGYKN
2107	10158	A	3038	1	693

2108	10159	A	3039	105	756	VDHPPYKRTEKVRQAQSPKSQYIYLSLL LLKLYRFSGPEEPNSNQTRVVLKRLFMSP HOTGPPLSLSRMRWKMKLSPWGPKQRRA VVCVVGPTTDVDRGSRRYPKLKVCCTAP *PSRAPQAAILKAGGKVLTFDQLALGLP LKGICGTVLLSGUPSKGRKVYRHFRQRP QEPHPKPHQNPITFRSKGRFERARGVRR ASRGYKLLTDPTILYKKIFA
2109	10160	A	304	444	920	NPSLRCWLGLSPGKLAGARGRGTVHVG GPEGPCTHSTSTKRMRAKRHPVEVSTGGGG KAP/*SQGIRGOAGOGGGARSGVGANG GGGARSRLRLSPAASATA/SGPEGSGP GGGGRSRVPVEAAPPCCRSRDVVPAAARGA AAAEGPGTWLPASQVGPSCGPWCG
2110	10161	A	3040	301	390	
2111	10162	A	3041	1	737	MWFAYSPPTFCHDWKLPPEASAEAKRMP ALCFLYSLQHPLCEDGVCAHEAGVWGI GLIAYVKGYEEEVSGQFTSIRRVRGDNY CALRATLFQAMSQAVGLPPWLQDPELM LVFVVAILLHSHECREPLLIPLSLYMGA LVRCTTLCGLYYKNHDIIPDRSGPELGG DATIRKMLSFNWPLALILATQRISRPVN LFVSRDLGGSSAATTEVAAILTATYVGH MPYGVWLTEIRAYPAFDKNNPSNKLVST SNTVTAARIKKFTFVCMALSLTLDQSVO KPDISLTGRVQTLPTMRHQRGESKDV APLASWLSEPTSEASATQTSKLITNSQG EGKAKQKLECGTSLIVLRSCEKNQERIK AAEKRNRSTTLCGLGAWRPLLFEPLPVI VQTPDQTNRFQFRYPAKTQSGLCSFHS FDLLTLEAFVKVWPPGKCLLILCFVMFW TPNVSEKLIDIQVDFAFELCVPLRIFPS FFPVPTVRAHLTGWL/QQPGAHAGCFC SHFASQSPGMPGPAAPHDPLLVHGRTRCA LHHPVPGIIQEHSRHHP*QKWPAGGR CNKKDAELLVAFGNSNGHENTQSACY QPLCFFGPWWOFCSHRGSGDFDSHIPCG SHAIRLVDGNPCCVSCFROE
2112	10163	A	3042	889	1577	RGKKNTVLKKIIRSQFTIRESFDFLRYKEHI PLPKLEFLDTKVFGLLEDOMVCTGPTG VALKGPHWKYIIGIIDEKGDLVNFSYQKL VFRTSWSTWLPRGRVLLRDCSLKTPKP AAQAQEPVTHLRPRRQFGSGSMSRLID WVLSLTHSDGDVIVPVLBSNERYHWPWL GWVGGVDCDEFFRVLGEARLHLDGV AHQH*GKKEPFPTCSKTTSVSHLVEVVP OKLSWVI
2113	10164	A	3044	2188	2706	RESIDOGFSNFFFFLRRSLDSVTQAGVQ WHDLSSLQPPPPGFK*K*FSCLSLSS*DY RSPATMPGLFLYFFFLVETGGFTVLA MVS*PQ/CDPPASASQ,SAGIQKNSNFFL ETRVSAFVAQAGVQWCQDLSGPQPPPG VQPPFSCLSLPSSWDYRRTPPG PANFAVC N
2114	10165	A	3045	33	198	
2115	10166	B	3046	6	125	MAGQFRIYLWDPPLLILSQIVLMTVYYG SLGLWLALVDGL*
2116	10167	A	3047	1	110	
2117	10168	A	3048	260	798	RPGHAQTLGSPSLALGMAQQFRSYVWD PLLILSQIVLMLQTVYVYGSGLWLAWVWD GLLRISPSLDQMFDAEILGFS/TPFQGRRLS MMFSILNTLNSAIGLLYFIRRGK/QCLDF TVTVHFFHLLGLGSNSSPSPSGG*TLV GLGPKFVVALHSLAVIGEYLCMRTELKE IPLNSAPKSNV

2118	10169	B	3049	1	528	MRRQDCPNPMKKIRSSPVQQERVSSLYFQSARGGLGVDSALGTVTHVSPSSARVAMAMSAERGCSMGHIMGVGRFTRGNGDHARVGYKGNPPEVSIISGYDDNWYLRGTDATLSCDVRSNPPTGVWDWSTSITFTSAVPRAPSWSSTQWTVCSIHLRLHTNAVTDGPR*
2119	10170	A	305	504	935	AYLQSSMIAQSRAARTTGLATWQHKALDRHFFRLLSRHPLFETCCSPCKRWGEKSFFRRACKEGRESAPCPIPFRPFRKVHTPRGKLRMRFVPRFVGSSRLGPRSRKRRTKQPR*PAAPRDSGPAPAAPPTRPSAARGNGG
2120	10171	A	3050	31	206	GSSCRSRSLVVVLSIVLVEGPAPAGDPDQTSPSALDKIKEFGNTLDEDKARELISRIKQS ELSAKMRVPLPRPRHEALPVAPGPGGGSVDRLGRPSPSRGPDPDSQCLG*AEGVWKHTGQGSGTHQPHQTE
2121	10172	A	3051	21	353	SAAGTGFPEPEPEPHKHLNRPADRPPQSGPRASGRQAQSPGPMSMARAALPLPSRSRPTPLWPLLLLLLLETGAQDVRVQVLPFVRLGQGTTVELPCHLPPVPLPVQLYISLVTWORPDAPANHQNVAIAFPKMGPSFSPKPGSERLSFVSAKQSTGQDTEAEQLDATALALHGLTVEDEGNYTCFATFPKGSSVRGMMTWRVIAKPKNQAEAQVTFVSQDPTVALCISKEGRPPARISWLSLDWEAKETQVSGSTLAGTVTCKVEHEFPEPMLPVEHESFEEPALIPVTLSSVRYPPEVSIISGYDNDWYLGRTDATLSCDVRSNPPTGYDWSTTSGFTPTSAVAQGSQLVIIHADSLFNTTIVCTSQNPWNALARAEOQIVFVRETPQALAPRCGPAVGGRGGDTAGAAASGWGVILGLHPCMVRRRRKSPGGAGGGAGSGDGGFYDPKASGVGKWCGRPLLDTSPPWSHGTRWQG*GGGGGGREGRERPHVASTPSTSRTWSPSWTAPSSHGG/PVY*PGPPWPGLPSCRRDRRRRRCGRCCCCCSWKPEPRMCEFKCYPRCEAASSGAPWSCRATCCHLFLDCTSPW
2122	10173	A	3052	1	1620	MARAALLPSSRSPPTLLLWPLLLLLLLETGAQDVRVQVLPFVRLGQGTTVELPCHLPPVPLPVQLYISLVTWORPDAPANHQNVAIAFPKMGPSFSPKPGSERLSFVSAKQSTGQDTEAEQLDATALALHGLTVEDEGNYTCFATFPKGSSVRGMMTWRVIAKPKNQAEAQVTFVSQDPTVALCISKEGRPPARISWLSLDWEAKETQVSGSTLAGTVTCKVEHEFPEPMLPVEHESFEEPALIPVTLSSVRYPPEVIAISGYDDNWDLGRTDATLSCDVRSNPPTGYDWSTTSGFTPTSAVAQGSQLVIIHADSLFNTTIVFVCTNAVGMRRAEQVIVCVRETPNTAGAGPTGGHIGGIIAAAIATAVAAATGILICRQQRKETOLOGAEEDEDLEGPPSYKPPTPKAKLEAQEMPSHLFTLGA*EHSPLKTPYFDAGASCTEQEMPRYHELPTLEERSGPLHIGATSLGSPIPVPGPPADEVSLDLEDEEGEEEEYLDTUNPIYDALSYSSPSDSYQKGKFVMSRAMYV

2123	10174	A	3053	408	2708	DPSSGHWLHWSSRPPAAGWSPRSGRRAA ARAQSPPRREHGAAGRTPGGGPRLLL AVILLAAHPGAQDVRVQLPEVRGQLGG TVELPCHLIPVPGPLYIISLVTWQRPDAPA NHONVAAFHPKMGPSFPSPKPGSERLSS VSAAQSTGQDTEALQDATALAHGLTVE DEGNYTCEFAUTPKGSVRGMTWLRVIA KPKNQAEAQKVJTSQDPTVALCISKEG RPPARISWLSSLDWBAKEETQVSGTLAGT VTVTSRFTLVPSPRADGVTTCVKEHIES FEEPALIPVTLSPVTPMVEVSISSGYDDNW YLGRTDATAL*ACDVRSNPEPTGYDWS TTSGTFTPSAVAOGSQVVIHAVNSVLFN TTFVCTVTAIVGIGAGAEQVIFVRETP RASPRDVGLVWGVAGGTTLVLLLAG GSIAFILLRVRKKRKSPPGAGGGASGDG GFYDPKAOVGLGNGDOPVFWTPVPGPME PDGKDEEEEEEKAEGKGLMLPPPFALE DDMESQLDGSISLRRAYATPPSPVPGSA GAAAVACTDPVPSGVHGNDHKNSSS MFRMKALAOQLSPYTPNTAGAGATGCGII GGIIAIIATAVAAATGILICRQORKEOTLQ GAEEDEDLEGPSPSYKPPTPKAKLEAQEM PSQFLTGASEHSPLKTPYFDAGASCTEQ VGAHGTKEMPRYHELPTEERSGPLHP GATSLGSPIPVPPGPPAEDVSLDLEDEE GEEEEEYLDKINPIYDALSYSSPSDSYQQ KGFMMSRAMYV
2124	10175	A	3054	115	467	
2125	10176	A	3055	315	431	
2126	10177	A	3056	53	442	PRVMAM/ATKGGTVKAASGFNAMEDA OTLRKAMKGLGTDEDAIISVLAYRNTAQ RQEIRTAHKSTIGRDLLDDLKSELGSNF OGAGTDEGCLIELASRTPEEIRRISQTYQ QQYGRSLDEDDIRSDTSF
2127	10178	A	3057	186	1268	PRDMAMATIGGTVKAAASGFNAMEDAHT LTKAMKGLGTDBNAISVLAYRNTAQ EIRTAHKSTIGRDLLDDLKSELGSNF VIVGMKMP*RDVQELRRAMKGAGT DEGCLIELASRTPEEIRRISQTYQ RSLEDDIRSDTSFMFKRVLVLSLAGGR DEGNYLDDALVRQDAQDLYEAGEKEKW GTDEVKFLTVLCSPKPTILLHVFDDEYQ KDHRRRIEPEVNLNSETSFGFWKIALLGLI VICCMRNSKASYFAEKLVKSMKGGLTD DNTLIRVMVSSSQKMDIMLDPAHTSKR LLWKSPLYSFIKNRVATSGDLYRKVLLV LCGREGMIKIKIPGRDREGSSTLLNFF
2128	10179	A	3058	1	4608	
2129	10180	A	3059	1	465	
2130	10181	A	306	163	387	IRQKKAIFVIVAFKRRGLRKTD/IIYYAR GG*FVKNKYRGHIELGTCGKYFLFCIL AIDPSDSNIISSMPEQT
2131	10182	B	3060	109	192	GSSSNELYLERFGLAVPSIRSLSVQSK*
2132	10183	A	3061	1	1542	
2133	10184	A	3062	1	4226	EAVLCSSRGPRPDSSMPDCCRNAALEARS CQSMTSLFSNTVSPQTGDTSSLPRQRSSF AKPPLRALYDLLIAPMEGGVVESTEPIGL TSRSGFASGTALFWLGDNNGKAASPPGV VSSLNEDDNTQCNRLQCGYREAAVDP WTQDQLACCLLPTLQSQLKARTAHLCPVPS SCYKAWYTLAVSKVSGMVEGKAWILL LLAASTHALLQRPQEGDITPLAGSRAAA VSCQARPFSTFSGLMHSSGPVGRHRQL VLE

2134	10185	A	3063	2	4195	ALDPGRRFRPTASIWASVLFETIRHEA EVSTDYKLSLFDLQLTTSYQALQRVLVSL GHDEALAVAAERGRTRAFADLVERQT GQQDSDPYSPVTIDQILEMVNQORGLV.L YYSLAAGLYYSWLLAPGAGIVKFHEHY LGENTVENSSDFQASSSVTPTATGSALE QHISASREALGVESYHSRACASSETESSEA GDIMDQQFEEMNNKLNSTDPTGFLRM VRRNNLFNRSQSMTSLSNTVSP7QDG TSS
2135	10186	A	3064	8	665	SAQMAMVTTADPVRPRVRTQLCSLATSN RHAWCILSPEEKSAVTALWGKVNVD VGKGALGRLLVVLPLVPDRFFESFGDL STPDAVNQQTPKVKVSVWSRKCLGA DGPDAVWNLDLQGSPPLTIL*ACTC*QAC TWD*RTFLRLPGGNVAGFVVVAHSSL GKEFQPHQCKLA*SRKLVGLVLA KCPWPHKYHLKLAFLAVQFLFKGLWSLKT Y
2136	10187	A	3065	8	531	SAQMAMVTTADPVRPRVRTQLCSLASLI QTRMVHLTPVKEKSAVTALWGKVNVD VGKGALGRLLVYYPPWTORFFESFGDL STP*SLLRANP*GERLHGKKSAS/PFSDG LAHLUDNLKGTFAHTEVSLHCDKLHRG SLKNFRLLGQRAWSVVAQPHFWKCNF NPTSCRRA
2137	10188	A	3066	91	951	TPHFHQGTGKRAAWPTWNPAGPGIFLR R*GPKAQRRRSIAPARPAVGPSPGIVRC PHGFGYPHERLRAQPRLPALRKLRVAGI HKEGWPGF11USDPRKPDQVPRSPLOQ.A NVQRLLKKYASNFILFFQRSPRAPKKGDR SAEELKLGHPSLTGPVMPVNRVYKKE KARVITEEEKNKAFASLRMARANAPAL RHTGKQEPREAAEQQG*KAHINKALPGD LESVGQSCWSTWCVSWEQQLGLWGFT AVTSSCQGIWGFLERQSKWPWIMLNLLYL KPCWLF
2138	10189	A	3067	1	1603	MKKLLKSILLTILDFSLHTCASLVPALQW ILLTILTVLVEGIAVAQKTDQGQNIGIK HIPATQCGIWVRTSNGHAFSPNVPDSY PPNKECIVYILEAAPRQRQIELTFDEHYVIEP SFECRFDHLEVRDGPFGFSPLDRVCVGK SPPLJSTGRFMWIKFSSDEELEGLGISEQ IIPFIDPDTFTYLGRYFKFFPS/HDCQFE/HL RELDGDSAALVR*NRKRNQNQGQAFIDC IWDL*MPFQKLK1YLRFLDYQMEHNSNEC KRNFVAVYDGSSIIENLAKFCSTVAND VMLKTGJGIVIRMADEGSRLSRFRMLLFT SFGGASPAQAAASFCHSNMCINSLVCN GVQNCAYPWDENHCKEKKKAQVFEQIT KTHGTIGITSGIVLVLIIISILVQVKQPK KVMACKTAFNKTGQEVFDPFPHYELFSL RDEKEISADLADLSEELDNYQKMRRSSTA SRCIIIDHHCGSQASSVKQSRTNLSSMEL PFRNDAFQQPQPMK1TFNSTFKSSSYTFKQ GHECPHQGPQKDRVMGGRFFC
2139	10190	A	3068	163	392	HQELLLFLLLSSRLSRSPSEGSRPTM/AL GEKKIGFPSSLWCFFPSAAGASSQIKWIQ PCGSAPPLPGCSGKRA
2140	10191	A	3069	190	352	HQELLLFLLLSSRLSRSPSEGSRPTM/AL EKRK*GFPHHSCLRAWRLKVCEGKS
2141	10192	A	307	131	395	LWAARAAVLTSLLPTGSPSAALSGCRP GGQGRYSVAACRGRAAAGGVAPVPAHT* AAAPLGHFSFLLGIVSAPEPHFEI.GHY SGLS

2142	10193	A	3070	1	794	MSRERPPGTIDPRNLSFIAAL/DGARLIP* PAAPQRGGAGGAGARRGRDAVRGPPIP TESGP/SGDPDHQPEAAGPGRP/CSRSPTD RKRVRFADALGELAALAVRFRPGELPRV PRHVQIQLQRDALRHFAPCOPRARGLQE ARAALEPASEPFGAARLLTQRICLERAEEA GPLGVAGSARVVDLAYEKRPAAYAGP APPGRADRFAFRLFAPPAGGALLFALRY RVTGHEFDWNNGGRDYALRGPEHPGSG GAPEFQGWIIHP
2143	10194	A	3071	133	1079	ARRILQNFSLYPSGDELKGKYKVIAQTA FSANPANPAILTEAVASAPIPHDGNLYPRLY PELSQYMGSLNNEEINRANAVVSGAP LQQLVVARPSSINYMGGLLLTG*MLGI RRSII/*KGKFREVILCKDQDGKVIGLRL KSIDNGWVQVQANQNSLISLGLV*EFGDQ VLQINGENCAGWSSDKAPRWSNRPF*E KITMTDRPFRERTITMHKDSTGHVGFIF KNKGKITSIVKDSSAARNGLLITGPNLCGN SMGQNVIGLKDSDQIADLSTSGTGTITI MPAFIPEHIIKRMAPSIMKSLMDHTIPEV
2144	10195	A	3072	242	512	AWPCCLRHCDREPAAPRGRGTSFLWQF GTP/GQDRGGGPWLQGSPLO*QRSHGG HLPAPQGPGGGPHDNSSFRPGRRGGAGRG QGIEQGSK
2145	10196	A	3079	184	561	GQRGRGLRKGSAGSAGMMEHHTHEA HPHTWVCTSTHTCTHTLGDTDMHHLV CVSHIMYV/CPHT/MSLALGMSAHTLHM FSHTKLLSR*HAGRHVPMPKVQTCTYVP TPSPTHVLGHACGCRPHAS
2146	10197	A	308	327	598	GPARNPAQCRWAGTAGGPSTLSAAAGP GAKPLMPGAA/GAGQAGWLL*VQGPPSP RPGTLAGPQARITALVPARASPSTPPC KLRGGLRP
2147	10198	A	3080	63	426	GILFPOHCPAHPRRCLRPRSSAGRGSAA PALSRPSALCHLCLPRSSLAPRSVSPA TPHH*ALQGLYEPWGPLHSAPLHR*APA SGFAGNVRRAWFACRGWCLSRPLPGTV GEAASRAF
2148	10199	A	3081	1	588	
2149	10200	A	3082	81		289
2150	10201	A	3083	3		387
2151	10202	A	3084	2	290	RPPGPSRSPPAPPPPSSRRPLVKMACCACC ARVATGPVPGLGVGVGGPGQRSPVTRR ARPPSGLLGFEARPLVPWTSRSFRCQCT ACGHLVEFVL
2152	10203	A	3085	2099	5383	VQTSLSPSPATNDRGHPFSLDNWTGKP VHSMVVAHLDATVCLAVDPNGAFLMSGS HDCSRLWLSLDNKTCVQEITAHRKKHEE AIHAVACHPSKALIASAGADALAKAHKE QGGKRLHJLPVEDDGFGAQAPPCEWEVP QGTNAQFLGCKGLCPSPFAGPSEHTRKD GGRCRLTDQDMAFCWDSHLPRKKGAE LQSPPPILLPQIPAPCGSGVVFHIQJLTRLF VLLPAASELAHVKQLACISIVDQKRPRVQ VPRP
2153	10204	A	3086	2	426	EDGSLATLFLGRQRFAFAEMRHSKRTHCP DWDSRESWGHIESYRGSHKRKRRHSST QENRHCRPHHQQFKESD/CCSMCIPLEASH SVEEDTHPSHYLEARSLNERDYRDRRYV DEYRNNDYCEGYVPRHYHRDIESGYRIHC SRS

2154	10205	A	3087	39	1514	GDGAAILWGVCRSGRGKTAWRHIPS AEGPFAFAEMRHSKRTHCPDWGSIIESAW GHESYRGSHKRTRISHSRSQENRHCKPH HQFKESDCHYLEARSLNERDYDRDRYVV DEYRNODYCEGYVPRHYHRDIESGYRHIC SKSSVRSRSSPKRKRNRHCSHQSRSRM KSVDTLGEGAFGKVVCEIDHGMGDMHV AVKIVKVNVRGRYREAARSEIQLEHLSNT DPNSVFRVCVQMLEWFDDHHGHCIVFEL LGLITYDFIKENSPFLPFQDHHIRQOMAYQIC QSINFLHHNKLTHTDLKPNELFVKSDYV VKYNSKMKRDERTLKNTDIKVVDGSA TYDDEHHISTLVSTRHYRAPEVIALGWGS QPCDVWSIGCILIELYPFWGSQFFRLQ**K EHLAMMERNIRTPYQHMLQKTRKRKY FH*PSLDWDEHSSCAGRYVRRRKPL KEFMLCHDEEHEKLFDLVRMMLEYDPT QRTILDEALQHPFFDLLKKK
2155	10206	A	3088	2	175	
2156	10207	A	3089	1	534	
2157	10208	A	309	1	630	
2158	10209	A	3090	1	325	LEKERDFY/FGKLR/NIELICQENEGENAP VLQIRIVDILYATDEGFVIPDEGGPQEEQE EYYSLGPAGQEHGYSSLQIMCLTVKYSLL LSLEDLSVFSFHQKVPLLKVPV
2159	10210	A	3091	3	930	SSRRGRAGGVWRFERDEDTGTAGCGQW TRCREPKMAVNYYSTSVTSNDLRSHD MLAWINESLQLNUTKIEQLCSGAAYCQ FMDMLFLPGPSIALKVKVQPAKLEHNEYIQ NFKLQAGFKRMGVDKIISVDKLLKGK FQDNFEEVQWFKKFDANYDGKDYDPV AARJQGQETAVAPSLVAPALNPKPKPL TSSAAQPRPISTQRTAVAAPKGWALGV VRKPNPGVONGDDEAAELMQQGQR*NL LFEDLOGKERDFYFGRRLRNIELICQENEQ ENDPVLQRIVDILYATDEGFVILDEGGPQ EEQEY
2160	10211	A	3093	337	903	CNRNTSTLRTCTNVICINTPRPAPPLA/P QATLHFQFP*/PLPL**QPOALSATRLSL/ VCHGSGRLRLPLLQAAQGPWLSPGLPL FSCRGRVLLC*PGWSCYLGLKLSSHLGL PKCWDDRKPSPASFEWAPTRPNPLPQ HGTOSQCLFSVGEAPRPHSGSAYTNQ LQCSRCPSCERTRRLGVLLPK
2161	10212	C	3094	821	1051	MAMELINNKHWPSPVSRALCWNTVLAYVI GEGVNSGRSCLAQTLVTFPRKGSAFRD WVLPAPGGNGALRLFRKILFC*
2162	10213	A	3095	1	594	
2163	10214	A	3096	3	761	TSRGRVGTQAGEPRDLRPPCPSSPLRV AVVCLEOQPERGAWEAHNIPQPNQGDSAV RSFGVTGTHVVKLPGPAPDNPNVYDFKTT YDQMYNDLRLRKDKELFTQNGILHIAIGR NKRKIPGPERFONCKDLDFDLITCEERV YDRVGWK*ISREQGDLSPSPVHVNVNLDI QDNHEEATLG/ARFLICEVQCQCIQHTE MAENEIDELQEFEEKSGRTFLHTV/CFIL FSFLDICF
2164	10215	C	3097	129	314	
2165	10216	A	3098	1	1434	
2166	10217	A	3099	1	831	
2167	10218	A	31	1	365	FFFLLLILFLLLIOYHYIFYTFLLWRLLLV LTGSI*C*KCKITMNST*IE/TVFKDYYEH LYVCKLKNLEKTDKLTHNFRRLNQ*E PEVLTRAKMYKINYDIE

2168	10219	A	310	101		520	RRLQKPGCLIWTRGST*CPLTLLLPSRGA GLGT/CMPPEPPHTSMGTCARASPT STTPCST/CAQSHPGRNKKQPKG*GMRA HAGLAGGSCTCSPGVGSTG*SQQL
2169	10220	A	3100	1	1251		
2170	10221	A	3101	1	5355		MAGWLRAWLDGWLTGWLAGCMSEW MMGDWMDGWIDGWMDGWNPVPEIQ VLHEEIELPGSNVKLRYLSSRTAGYKSSL KTMQTQSVPNLNLIRVHLMVAVEGHLFQ KSFQASPNLAYTFIWWDKTDAYGQRVYQ LSDAVSVSFGFEYETCPSSLWEKRALL QFELDPSNLGGWSLDKJHILNVKSGIL HKGTGENQFLTQQPAHTSIMGNGRRRSI SCPSCNLAEGNKL LAPVALAVGIDGSL YVGDFNYIR
2171	10222	A	3102	205	393		
2172	10223	A	3103	2	158		
2173	10224	A	3104	1	1923		MRPPPALALAGLCLLALPAAAASYFGRQ SRSLMPSPRDPHAGALSAAILASGEPSLPR TPSPSFAFLRSGDREGWVWDGWDGLFPV SGQRIVRVQGEWGKPRTSFADFVNTKCF GILIREYANIRRAGNIVFGPLMNDCPQQ MASSLQAKTWAAFAHQCSAAKQQLITE LHEDALKKWTSWAMGWERSRSHDKPR RLSRPLVPPRPPFPRAPCAGGSVRRLGLAD OKGQQPTQRSLLPTGSASFTPDRGCAES WCLRPRALIGCSLTSSNPAAPRWAREGG CGWRCASDKPESHFOSQDFVPTIGGV APPLHGRGQTSSAALLMEPHHLGLLGLL LLLGTRVLAGYPIVWCWAQGCVAVNI FADYLWVRAILLHLHYHIVLYAGKWSQ WAMGAGEKVLRSEAEFRFSVRQPVPR EHSGYPRQVHEIQSCMGRULTDADKQSG HIVENEIQASIDQFISRLERLEIILSKEPPN KRONGR/LFRVNSLKVYDVVOHLOTAALRN FQHRRHAREQQERQERAFCRSKPFTT *TLDTTTNWDRIHLQF*PLSLPRKFHN GHGIDLILDGHNRLDGLRTQRLTLKGT QKJLDIANMLGLSNTVMRLIEKRAFPQD KYFMIQGMILLCVVMFLVVQYRT
2174	10225	A	3105	1	566		FSGRPTRPRPGAVACRAGDMMDPLFOQTH KQVHEIQSCMGRLETDADKOSVHIVENE QASIDQFISRLERLEIILSKEPPNKRONAK LRVDQLKDYDVQHQLQTAJRLNFQHRRHAR EQRRQRQRIEELLSRTFTTNGTQKDDPLTL PNMLGLSNTVMRLIEKRAFPQDKYFMI GHPA*PLWALFLWFQYRT
2175	10226	A	3106	53	151		
2176	10227	A	3107	432	649		GSIPFAQAGVQWCVCSTLQP/LNS*SSNL SLHSCWDYKFKLVCICKGDGKEFLHMHI LKKDVTLTKEKLIPRYV
2177	10228	A	3108	2	677		PPSFOPQSDFGRGDASGRNAAMAAQGE QLVLVGDGGTGTITFVKRHLTGFEFKE YVATLGEVHPLVFHTNRRPKVFNWD TARQEKFGLRDGYIYQAOCAIJMFDT SRVYTKNVPNWHRDLVRVCENIPIVLCLG NKVDIKDRKVKAISIVFHRKKNLQYHYI CAKSNNYNEKFPLWLARKLIGDPNLEFV AMPALAPPEVVMDFPAFASTYEHDLLEVA QTIAL
2178	10229	A	3109	1	549		

2179	10230	A	3111	411	640	ADIDSRGPKMSLOSSSS*SRGSWMMSGN*W SFSSDPTYSGSGSAPSPIPTQGAEECGRT TAPGLAGSSSTCSPGVGSTR*SHFRPTHTPS LENLEDIALTNVLQNQRFVRAEPASLKSPPV IALLCMSDLTVGTVTQLOHLNTMGVIG SQDGRDQVAALNHQKQGDWLWPPRVT LWRKGIDQTFWGLLNTGSELTLIPGDPK CRCSPPVKVEAHGQCQVINGVLAQIQLTV GLVGPFRVPTTQGAEECGRTAPLAGS STCSPGVGST
2180	10231	A	3110	2	822	APALAPASAASPAFFTLPPSFQPSQSDGR GDASGRNAAMAAQGEPPQVQFKLVLVVG DGTTGKTTFVKRHLTGEEFKYVATLG VEVHPVFEHTNRRGPKFNVWDTAWPWR NSGGLRQDGLYIPSPRVPIJMFDIVTSRVT YKANVPNWALGDLVTSV/CENIPHLCVVA NKVVDIKDURKVKAKSJVFHRKENFQYY DISAQKVPNTLKKPLFWALLGSLMGPD* LWNLLPMPMLLSPPR/EVVMEPQLWPAT SMKHDLEVASDNCLPPDEDDDPVKK
2181	10232	A	3111	116	599	PQVSLPKCCDCRCEPLHLLAAEKSPLTVR ETTKVPEAKSEFHKNKMDGRGGKPMG GCEGPDAMYVKLISDSGHEFIVKRDHG LTSGTE*KPMILSGPGQFAGGGTHTHEVN FREIIPSHIAIRKVCNVFTTYKV/RATPNS SHPRPPEFPNLAPGNLHWELA
2182	10233	A	3112	84	348	KYTIKTKTVLKKSGIFSTCPKPKSCYDFV PLNAGPIPPLKSILGTNGPHTMLEMLD*RL NKPPTPSQRSPLTQVGHRTTRTRRRPRT
2183	10234	A	3113	122	518	KSELEFFFPAALSPSPALILCHLMQAPYHILK VSWEPTDPPT/ALEMID*RLPLPLHA*HKG ETHTCGPLSDHTFKAPPDPLQICLLSHHQ PASPSQHTPYOPSEVTADSGGTQVDKA NQEAEATNTKHHEQEQQD
2184	10235	A	3114	1	1452	MSAYCLOLGLLQALLALTQTPGHRDSL DAQPAAVLVCGWPVWLASFSERTIVGHK EWTTIKDKLKNKFKDEFDFIVSLPCTLGSHP QPDQPMKLKLPWSITYGRCLAPGDHTVSL VIKLVEASLSLAVSNMLSDMIRWMPAG CGRCCLLGLQSESRAVCQGQCVGMEQVCR VSOPHRIWIPOPOLHSCLFLYPSYPLEP SSNTSFICPHSRTYNGSLLSCIPNSAAAAA PPTPQATSFPSCPSPKQRLPTGRVEEGSD HRVHEARLPGNHRSRGVDSAPPTLAHA GLLTEEKTLLKENGRRAEALRVGVHWR HGTSGQPGRTLWAEKVKPHTRGQVY DASSAPVTEHTATELPAGNQGSQPGLOQE GGLEGTVVTLVSWKVYTMVSRRC*CRY GQRPB/HPLKVLGNQRPTHTMLEMLD*RL PLPQRLTPKGKHTPVVPPLLIQPFKAPPD PLQICLLSHHQGPASPSQQTHPYQPSEVTA DSRWDTR
2185	10236	A	3115	1	414	

2186	10237	A	3116	112	1655	QHHLQRASPRLLQLLPLPLPPPPPPAFAGGS LSSLGSRMSRSQVVRSKFRHVFGQPAK ADQCYEDVRVSQTWDSGFWC/SVN* VLWALICEASGGAFALVPLPGKTGRVDK NAPTVRR*HS/APVLDIAWCPHNDN/VI/A SGSED/CTVMWBIPLGGMLVPLREPVV TLEIGHTKRVGIVAWHTIAQNVLLSAGC DNVIMWWDVGP/GAAMI/TLGPEGP/DA NYRGDWE/PDGGLCTS/CRDKRVRIEPR KGTVVAEKDRPHEGTRPVRVAFVSEKGK LTTGFSRMSRERQVALWDTKHL/EE/SPV/S LRKLHTRNGVPV/AFGGPD/TNIVYLRGK GNSGP/IRV/FE/ITSEAPFLHYLUSMFS/RSKES QRGHGLHGP/PRNGLEVN/KEIA/GFYKLH DGR/CVSPMPKPVPRKSDLAQEDLGPTQ PQGD/PLCLHGLKEWLGGRDAGPLPSSPL KDGYVPPKSREL/VRNRGLDP/GRRR/AA PEASGT/PTSSDAVSRL/EE/EMRKLQATVQE LQR/LDR/LEETVQAKL
2187	10238	A	312	375	519	GMGFPKQITPQS*VETNAKNV*GGDIAS FMGS/THALFEP/PDSH/HS
2188	10239	A	3122	200	469	RGGGAGPLTGH/HVGLLGI/AA/AA/ADQFD RLAAGICGHSHPH/PG/PLPGLHCCAPLWS GPQON*PTADVAESLQLVT/VT/HQSETEDG EFTECN
2189	10240	A	3123	1	2520	
2190	10241	A	3124	1	1950	
2191	10242	A	3125	1249	2166	
2192	10243	A	3126	1	2424	MVAIHS/AA/LESSLLFOEQS/QLLYLVL/TVHE NLMN/MAIG/FTDGS/VTLNKGD/ITDR/HSK TQL/HKGN/PVT/TLG/FRQAGK/TTH/LFVV TTEN/VQDL/QFIVAG/DEC/VYLYQP/DERDC RHD/HVFSLYFM/PP/FF/T/TL/VI/ALP/QLV/PIT GV/CGRY/LLLCW/WTQ/TA/VV/G/HL/GHS/ET MLLF/MPQV/FN/FLY/SL/PS/QLL/H/UP/CP/PR/IR PRLN/TK/LEMS/YS/K/FT/TK/S/L/FG/TF/1 LKVAE/SL/QL/TVH/QS/ET/ED/GE/TE/CNNM T/LN/LL/QSP/WA/HT/E/KPH/AA/AA/AA/AFS FLCD/HW/H/PG/GR/FL/PS/AD/Y*LD/FT/Y/G/FL/QL ATL/LS/PS/SL/Q/P/UT/G/K/LE/PS/V/IR/K/FLD AQ/RH/L/T/A/Y/L/QL/HL/RS/AN/AD/HT/LL LNC/Y/TK/LK/DS/SK/LE/F/IK/KK/SE/SE/V/H/DF/V ETA/IV/LR/QA/GY/Y/SH/AL/Y/LA/EN/HA/HIE W/Y/LK/Q/LE/D/IK/N/Y/QE/AL/R/Y/G/K/LP/FE/QA E/S/N/M/K/Y/G/K/LM/H/PI/FE/TT/QL/L/K/G/L/C/T D/Y/R/PS/LE/G/RS/DR/EP/G/CR/AN/SE/E/F/PI/FA N/N/P/RE/L/K/A/LE/H/M/SE/V/Q/P/D/S/Q/G/Y/D/T/L L/ER/L/Q/N/W/A/HE/KD/P/Q/V/KE/KL/H/A/IS/LL K/S/G/R/CD/V/DF/K/A/W/F/Q/Q/M/H/Y/H/M/Q/H/E/Q Y/R/O/V/S/C/ER/H/G/E/Q/D/P/S/L/W/E/Q/A/L/S/Y/F/A/R K/E/D/C/KE/Y/V/A/V/L/K/H/E/N/K/N/I/M/P/L/L/V V/Q/T/L/H/IN/ST/AT/L/S/VR/D/Y/L/V/Q/K/L/Q/K/Q/S/Q Q/I/A/Q/D/E/L/R/V/R/Y/RE/ET/TR/Q/E/I/Q/L/K/A/S P/K/F/OK/T/K/C/C/N/S/A/E/L/P/S/V/H/L/C/G/H/S/F H/Q/I/C/F/E/S/Y/SE/D/A/C/P/T/C/L/P/E/N/R/K/V/M/D M/I/R/A/Q/E/Q/K/R/D/L/H/D/Q/F/O/H/L/K/C/S/N/D/S/F/S V/I/A/D/Y/F/G/R/A/S/P/N/F/I/F/Y/V
2193	10244	A	3127	1	411	
2194	10245	A	3128	2	243	
2195	10246	A	3129	1	1176	
2196	10247	A	313	640	975	V/P/W/E/A/G/G/S/M/S/I/C/F/Y/P/R/Q/S/E/Q/S/H/N/I/V/K/S/K R/P/V/T/P/Q/N/R/C/Q/K/G/G/H/S/A/D/V/S/T/C/Q/C/F Q/C/S/H/R/E/Q/G/A/F/K/Q/F/S/Y/L/*N/G/S/N/S/F/Y/L/T G/C/F/D/N/L/I/T/S/V/F/C/S/V/R/F/I/H/G/P/K/A/I/K/G/K/Y/H
2197	10248	A	3130	2	496	
2198	10249	A	3131	2211	2568	

2199	10250	A	3132	100	2726	AMMGPLPGPHLLDPLLPSPFCLPPGTV CDSRGSLVFGDMEQQJWFLPRLSQLTG FQAYKLRLRVTHLYOLKQHNLASVGEDEE GINPLVKIWNLEKRDGGNPLCTRFAPI GTEPTVVSCLTVHENLNFMMAIGFTDGSV TLNKGDITRDRHSKTQILHKGNYPVTGL AFRQAGKTTHLFVTTENVQSYIVSGKD YPRVLELDTHGCGLRCSALSDPSQDLQF VAGDECVYLYQPDERGPFCFAFEGHKLIA HWFRGYLJIVSRDRKVPKSEFTSRDSQS SDQKQILNIYDLCNKFIAYSTVFEDVVDVL AEWGSYVLTRDGRVHALQEKDTQTKL EMLFKKNLFEMAINLAKSQHLDSDGLA QIFMQYGDHLYSKGNHDGAVQQYIRTIG KLEPSYVIRKFELDAQRHNLNTAYLQTLHR QLSANADHTIILLCNTYCTKLKDSSKLEEF IKKSAESEVHFDVETAIKVLRLQAGYVYSH ALDLAENHAHHEWVLYKIQLEDKNYQE ALRYIGKLPFEQAESENMKRYGKILMH PEQTQLLKGGLCT*LSAQPRRPQR*GPR LAGPTLRSFPIFANK/HPRDLKAFLEHMS EVOPDPSQGYDITLRLRQNWHAHEKD QVKEKLHAEASLILKSGRCFDVFDKALD LCOMHMDFQDGGLYLYE0GKLFFQQIMHY HMQHEQYPAGQSA/CCERHGEQDPSLAW EQALSYPARKKEDCKEYVAALVKHII GNLMPPLVVQTLAHNSTATLSSVIRYL VQKLQKOSQOIAQDCLRRLRYREETTRI RQEIQELKASPKIFQKTKCSICNSALELPS VHFCLGHSFHQHFESYSESADCPCL PENRKVHMDMIRAQGTPERFSMINSQHQL QVLQ
2200	10251	A	3133	11	707	AKMGAYKJYQELWRKKQSDVMRFLR VRCWQYRQLQASALHRSGRPH/RFDKVKH RLGYKOAKQGIVYIYRIRVRRY*DSCSR DRRGGRKRPVSKGATFCKPVWHSVGNQ AKWVYGPFTSVABERGRHVCGALRVL NSYWVGEDSHLPNFLGVPVPHGSHSHKAI RRNP*PPQWATQTQSHSKHREMRGLTSA RPERAVGL/GKGHKFHHTIGGSRRAAW RRRNLTQAPPPLI
2201	10252	A	3134	1	333	
2202	10253	A	3135	1	1530	
2203	10254	A	3136	1	554	ILSQVRQCQAQLAQQAAGGGLSFRAASSL PVPSLAVSMAFKAFSPVRSIRKNSALSDDH SLGJRSRKJTPVDA/DPDGALLYNMKDCYS KLKLELVPSPPEQRR*ARWEILQHVIRL TSWDLADSPWDLAFLPLIVQPGIHQRTG RNQQRSTPLGPSTRDISILSFAGLLEFPS ELMSNDSKALCG
2204	10255	A	3138	3	251	
2205	10256	A	3139	1	1674	
2206	10257	A	314	22	297	GKEKLSHSKAWAPKSQNSNSASSWSN QSQAQPRFKGEDI/ESHLLMGREALS*QS /GRLVYLOSLST*RFSTASPEQLDTECR VHSQTL
2207	10258	A	3140	1	648	MSLRKLJTIM/VEGKGGPNIPHACGRQRS SIKVSLLPAVTSKSESPKEPEQLRKLFIGG LSFETIDESLRSRHFQQRRLTDCAVMRD PNTKCSKGFGFVYTATMEEKYHTVNGH SCEARKALSKQEVASASSQR/GRSGSGN FGGGHGGGGFGNDNFHGENFRGHSSF GGSHGGSGYGGSGDYSGFGNDGSNFG GGGSYNDFGNYSNQSSNPGM

2208	10259	A	3141	579	2102	SPKEPEQLRKLFIGGLSFTTDESLSRSHPEQWGTITDCVVRPGRDKAVQKQISLAYL GAVFSECL*K*LIAL*LELCWQRNVLL*F *KLT'S*!G*WETGRTFVKRLV*SFLLPYS KLK*OKLLRSDFVLHKLTLFSGMRDPNT KRSRGFGFVTYATVVEVDAAMNARFHK VDRVVEPKRAVSREVSGFFFFFFNLNLL GVVLL*DSGV*TYQNFLFEYRLC*SK PMVFLLUDSQRPGAUHLTVKKIVVGGIK EDTEEHILARDYFPEQYQGKNEVEWEHILDR  GQWPRKRKGAFVFVTDHDHSVDKIVSKY QIVAFSKGSTICMAF*TLIPCCIVVFFLHQ KYHTVNGHNECEVRKALSKQEMASASS QRG/YACCLIKP*!L*VTPV*M*CLNFM S*GRSGSGNFGGGRGGGFGGNDNFGRG GNFSGR/GYVWFYIM*F*LLTIFAMKILQ YGNICQNVTLSPSHT*NLKLFLTGFGQGS RGGGGGYGGSGDGYNGFGNDGKFFRNK
2209	10260	C	3142	42	152	MIXXXXXXXXXXXXXXXXXXXXXXPSAFA PXXXXKSLG*
2210	10261	A	3143	3164	3255	
2211	10262	A	3144	12	336	SPVQL*F*LFLVFC*LWSWSAVVYGLPL GTPSADAHT/AGLSKTPPHWAAARALDD VFLSLRTFSSHSLNMLEVQDLTASAPMYS STSRRDP/CLGLPKCWDXYKREPPRPAH
2212	10263	A	3145	602	744	TPASLKIPVE**NTLAKMVSIS*PRDLPA SAQSAGITGVSHRARC
2213	10264	A	3146	269	483	
2214	10265	A	3147	2	988	KYPPPAVLWFFGFFVLRRLSIALSPRLECS GMSIAHKCLCLPGSRHSPASASRVAGTT DVHIIHAQLI/LVVFVLETGFHRVSQDGL NLRLRLHLPKCWDYR/R*ATTPLGLCFVF* KKRNAREGGROPDPHKS*FL/VFFFFLFL KWSLDSVSKAGVQWHGLSSLQAPPNGF TPFSCSLPSPSWDYRPLPRAFPNFVFL**  DGGFTVLARMVLIS*PRDLPASASQRAQ  TGLSHICAWEFF/CFFFKTGSHSVTHARV QRHNLDSSLEA*TPLGLN**SRSLLSPSPSWD YRSTPPSPANF/CSFRDGVSPC*PGWSRS SDLVIRPPRPPKVPGQIA
2215	10266	A	3148	2	608	RDSPPSLDSGARRDAPHSPPAECRAH AATWRLKPRPHRHPSLTAPLVPHWAGT TEPLPSRPRATGTRERPLHFPATPRSHS/ WRLARPQPGPS*DRFLSAGAGPCVVS CLDREKNAIGHWVLSAFAVLWVLWLTIEH WLLLVFGIGYVKAISVPPGCRACFWF AVLAGLGCLPAVSGIPRERFWVFPRLHIL VPWLALWE
2216	10267	A	3149	131	453	
2217	10268	A	315	152	437	GLRLCLSLRPLTRPGDDSVGGSAMASGAG GVGGGGGGKIR/TRCHQGPKPYQQGR OQHQVWDPDAVAWRVKGKLGWRGRRA VRQGPAPRGADRRA
2218	10269	A	3150	403	787	MGRIFLDHIGGTRLSCAN/CDTILTNRSE LISTRFTGATGRAFLFNKVVNLOYSEVQ DRVMLTGRHMVRDVSCCKNCNSKLGWJW  YGVVWPLKDSQRF*GKGR*SGER/VLVS EELRALEE/HVPPDNS
2219	10270	A	3151	171	382	KNSYKCEECGKIFNEYSHLARK/RIYT*E KLYQ*KDCEKAINVCSHLTQHQRV/H*K KYKFKNYCQKVFOKI
2220	10271	A	3152	76	195	VHLLNPQHMPLPSTHKQRRRTL*KGHAE HLQYYLNNQKLS

2221	10272A	3153	2	634	WVWESLNREDLWPCFLRRLGGSSYSTA EMVSQTLQR AHLRE AASISI NSQGVW RKSARFSHQLERG TEEQQLQIPDLQGKHP SKAPVFPQVQAHPRFQTGP GHGKHLQRN QDPGQLO*PMLGQTPWTQATGPTI*TQP SGRSPCSHYSGMSTDGSFMLAHSLTQVS SQPTCRLLLEACPWTSSGGLPRISGWT RQVPGSVDRDLISP
2222	10273A	3154	275	463	QKFKSLSCETLFPGSVGSSFFSSCTMDSSRS LGVGSKNSHFSLA*NTDLRLSLCPFPGW KEDIFK
2223	10274A	3155	5904	7919	FMFINMSVCRLLTTKYL LLLFLHESL LLLS ENLRKDWEAVTGSFASQTSICIGLLRSA EL AL LLLHPVDQANTILKSPVSESVSPVVP DYLPTENGDPLSSKRKQISRDINRISRTV VNHMSDNRMSVDSLHSIPLKDPLFKSA SDTINLAKRAFPFMDYLSDKHJL GKJNSEDE SSGLVYKSGISGEIGSETSDKKDSFYTDS SILNYREGFRJYLSFG*V*MGNQNILSSTL TSKGNETIESIKAEDLPEAASLSEN,LAD ISKEETPPVIRLKSOSLSSGESLRLERLPH PNLGFPLVFSYKNNMKRSSSQMSF/EATIS LDSMILLEEQLLEDGSQDSHMFLEKGNRK INSTNVRGTAESVNAGANLQNYGETSP DAIS TNSEGAEQNHDDALMSVVVFK1TG NGEIDIRGEDTEICLQVNVQVTPDQLGNIS LRHYLCNRPVGSDQKA VHSKSSPESILR FESFGAVIHSLLAEKNGFLQHJENFS TGFLTSSLMNIQHPLFEDETVATVMPMKI QVSNTKINLKDDSPRSSTVSLAPVTVH IDHLLVVERSDDGFSVHIRDShMLNTGND LKENVKSDSVLLTSGKYD LKQRSVITQ ATQTPGPVWPWSQSANFP*EFSFLHLGE QLMENEESLQELA KAKM ALEAHLAE KDALLHHIKKMTVE
2224	10275A	3156	149	382	ARHCGSP*SOHFGRSR*AEHLRTGV*D QPAQARGETPSLWKNTKIRRAQWWCPV PATSGGLRQENYLNFGRQLQ
2225	10276A	3157	162	342	
2226	10277A	3158	1	1995	FRVITPGVPAFSGGRRHGRGTRRAM ASCVGSRTLSKDDVN YKMHFRMINEQ VEDITIDFFYRPHITNLLSFTIDSLMYFAF TTDOSVP*DNIWRCIIISGILLFLIIKV*AFP NGP,TRPHPALWRMVFGLSELYFLFLVF LLPFEFFQAKSLMDWLDPNLRYATREA NVMEYAVNCHVITWERI SHFIDIFAFGHF WGWA MKA LIRR YGLCWTSITWELTEL FFMHLLPNFAECWWWDQVILDILCNGGG IWLGMVACRFLLERRTDH WASFKDIDHTT GKIRKRAVLQFTPASWTVYRWFDPKSSFQ RVA VYLFMIIW@QLT@ELNTFPLKHFV QASIPLSWGRILFVGGUINSFQPLROYYA YLTIDTQCKR/L*GTQCWVFGVIGFLA/AI VCIKFGQJDLFSKTQIYVYVLLWLLCVAFT TFLCLYGMIWYAEHYGHPRKRPTPECE DGTYSPEISWDRHKGTKGSESDSPPKHA GNINESHSSRVRNRUHSSKSVTNGRWER NEKPVWNNSKMFPECLGTEEGKWEHLHG TPRGGSRAHRGKPGREGETLGVII RSL SLCPPTDGLR VQADHRLGGPFANVGSL TSALDMRSPVAA RCVERETVAFHSQ EQLRAMLDRGCSVNIPPSDEALTPWLM WSPVFNFIYFESTFPID
2227	10278C	3159	410	538	
2228	10279A	316	3	609	
2229	10280A	3160	4	334	FFPKALIFCREVGPISPPKJRFPSPKFPGN RFSPPRVRVKPPGP/SFKRPPRJKKLPCQ PP*TLAPPRL*KGPP/PSSSG*NPYLFQ QKTEYLLWSRPCWPCHCEQR

2230	10281	A	3161	1	1130	PLPTSLVEDAAILLQQVMRAFSKQAST VVFSDTVVSEKFINDCTELFRELHMHQK AEKEMKNNPVHLITEEDLKQISTLESVST SKDKDKDERRRKATEGSGSMRGGGGGN AREYKIKVKKKGRKDDDDDESQSSH TENEESGYDKKDENILEDVKWGTQSFL EIPQDIEKARDKTLEADSELESVFMSSST SASGTGKRTIKDLQEEVSNLYNRILFE KGGMKFADDTQAAALKHLLKSVCTDITN LIPNFLASDLMMAVDPPAITSERKIL SKLSEETKVALKTLHNSLNKEQDHALLV KYQGLLVVKQLVSQSKKTQGDYPLNNE LDKEQEDVASTTRKELQELSSSIKDLVLK SRKSSVTEE
2231	10282	A	3162	20	2478	RVCSSSASTASQAVMADAWEERIRLAA DFQRAQFAEATQRSLERNCIEIVNRLIAQ KQLEVFVHTLDGKEYITPAQSKEMRDEL HVRGGRVNVLDLQQVINVDLJHIEENRGD IHKSEKHVOLVLGQLJUDENYIUDRVGQE NDKLQESGQVTISELCKTYDLPGNFLTQ ALTORLAIHHIGHIDLDNRGVITTEFAVAR HRARIRGLPSAITRPTAVNSLISKYGFQE QLYSVSLDELVNSGRLRGTVVGRQRQDK AVFVDPDIYSRTQSTWVDSFPRONGYLF DALSLRGIPDAVSYIKRYKTTQLLFLKA ACVGQGLVDQVEASVEEAISSGTWVDIA PLPTSLVEDAAILLQQVMRAFSKQAST VVFSDTVVSEKFINDCTELFRELHMHQK AEKEMKNNPVHLITEEDLKQISTLESVST SKDKDKDERRRKATEGSGSMRGGGGGN AREYKIKVKKKGRKDDDDDESQSSH TGKKKPEISFMFQDIEIEDFLRKHIQDAPE EFSIELAEYLIPLNKTYLEVVRSVFMS TTSASGTGKRTIKDLQEEVSNLYNRILFE LFKGKRGWKFVFFADDTQGWLLPKHLLEV QCVLISLNLIJNFNFGFGIILMDGQ*DDPG RPFTSVELRKERLNSLSEETKVALKTLHNS SLNEKSIEDFFICLDSAAEACDIMVKG DKKRERQILPQHRQALAEQLKVTFEDPAL ILHLTSVLLFQFSTHSMHLAPIGRCPQII AFLNSKIP*EDQDHALLVKYQGLVVKQLV SPSKKTTGQGDYPLNNELDKEQEDVAST TRKELQELSSSIKDLVLKSRKSSVTEE
2232	10283	A	3163	1	389	IPSIEISRSVAFSL/PLLSVSGLEIAIRTPK INQVSRHIPPENGKSKFLNCVVSFGHPSD IVGDLLMMNGERIE* *HSDLAFRKDWA YLLDYTEFTPT/KEDEYACRVNHVTLSQP KICKWDRDMLMSASMEA
2233	10284	A	3164	2	409	RPRVPRVRVSIRAEAMSRSVALAVLALLS LSGLEIAIRTPKIQVYRHPAENGKSNFL NCVYSGFHPSDIEV DLLKNGERIEKVEII SDLSFSKDWAFYLLYTYEFTPT/TEK/DEY ACRVNHVTLSQPKHVWKWDRD
2234	10285	A	3165	26	299	
2235	10286	A	3166	11	486	
2236	10287	B	3167	198		
2237	10288	A	3168	80	282	XPSLEDLSNSIQLHLAENAEPPEEQSA*
2238	10289	A	3169	1	2511	827AQAVLARSKLESLCRELHGHNRSLKEE GVQRAREEEEKRKERVTSHFQVTLNDIQL QMEQHNEERNSKLRLQENMELAERLKLLI EQYELRREEHDKVFKHDKLQQLQVDAK LQQAQEMLKAEAEERHQREKDFLKEA ESQRMCELMKQZQETHLKKQLALYTERK EEFQNTLSKSSVEFTFKQEMEKMTKKI KLEKETTMRSRWESSNNKALLEMAEE KTRVD/ERTGGPAGKNPNTAGEAVPGTAD RAQ

2239	10290	A	317	1	949	MGSACAARASLTSTTPCSTAPSPINHKAEE ECERTTAQDWQAAPPAAVPDRPLGPES WAPESGGQVESLYIYLDRCKYTNQHYPVF SSRFVNPNPIDIYLALAVGPWKTFMSS GIVNTPIGTLYLAQVTVPPLHTRFFALSP ROPRSFKNGLLFOGTGTTLNPLSGYSSDY KGFFGRFRNHPIOTGFSAGANQRGLVAT LSGPGEQGSQAVPVSLSVKKRKTTLAPNT QTASPRALADSLMQLARQVSPTGKRAV SATAINLKVKCKHTSQHPVFFSRVSAPID TLYLAALVRTWRVVFMSSSGIVNTPIGTLY YLAQGL
2240	10291	A	3170	93	517	GRGHLLGG/VWC*RSQERAQQIKEASAET /CSWLQMKQNRPKPSQEKTTRDMENP DRGFVPGKECSFEEQLEHIVREMQEKLARL HPSLDVCGEEEDDEEEEDGVIEGLPEE KKTMADRNLDQLSNVGSCLGALVPG MRGGE
2241	10292	A	3171	3	348	FFAFLGLIPFNAPLPHSTWGAAEHPPE VKSHSLKRMGRGAVW/CLRGPTQH/HC SGSAFSARCSFWIELLRSRSLSSWRLR SAVFFCCSSGKPLSDPNPLPLHRRPPPHTH PG
2242	10293	A	3172	2618	5946	PGCNSFLDVCREEEEDDEEEEDGVIEGLP EEQKKTMDRNLQDQLSNARGRAWQL APMPEELLVRKVSALQACVRFGLVRRQF QSLRAEYEAIVREVEQDGLTQLQTEQRI PRPRFLPEKAHSQHTWKAQDRVANPEQ GLWNHHPCEESEGEATWEEMVLKKSGE SSANQQGSLCRDHSSWLOMVKQNRKPSQE KTRDTTRMENPEATDQRPLHSQFQLQEL QYHRSHLAMELLWLQQAINSREKEYLL KQTLRSPEA
2243	10294	A	3174	16	319	LGTRPAHRSSQ*KGKSGPLPQGAPLISRG GKEGGPGDRAAHADPLPAEEGAHGMVR GSHGSPLIAPLPTVPHPSGLPGLALPLA RPRHQGAALGSVHEIQ
2244	10295	A	318	1	4425	
2245	10296	A	3180	417	736	YGLGAVAHACANPSTLGGQAGOQITRLAV QDQPDQHCEPTSLIKMQKNVLPGHGVC LQSQLLRLGRQCNCLNQGGGSCSEPRSH QCTPAWAE*ESVSKKKKKKKLUV
2246	10297	A	3181	1	2061	MGAVRDELHSLVVFPLMGRQAQTPMA AAALRDPAAQGCCVTFEDVTIYFSQEEWVL LDEAQRLLYCDVMLENFAILASGLISFR SHIVSQLEMKGKEPVWVPSVDMTSAMAR GAYGRPGSDFCHGTEKGDLPSHEHNVSVE GVAQDRSPSEATLCPCQTKTCPDCICOLRLK DILHLAEHOTTHPRQKPFVCEAYVKGS FSANLPRKOVQQNVHNPIRTEEQQASPV KTCRDHTSDSLSTCREGGKDFVATAGFL QCEVTPSDGEPEHEATGVVDFHIALRH KCCESGDAFNPKSTLVQHQRHSRERPY ECSKCGIFFTYAAIDLTOHQKVHNKNEP YECFEGGKFKPALSLVKHRIWHTGESP HVGCDGKFFSSRSNLQHKKRVHTGEKP YECSDCGKFKPSRSNLHKKRVHTGRSA HECSEC GKSFNCNSSLIKHWRVHTGERP YKCNECGKFFSHIASLIQHQIVVHTGERP GCGECGKAFSRSSDLMKHQRVHTGERP YECNEGKLFQSSSLNSHRRLHTGERP YQSECQGKFPSSSLNNHNRLLITGERP YECSECQGKTFQRSSNLRQHLLKVKHPDRP YECSECQGKAFNQRPTLIRHOKIHRSRM ENVLLPCSQHTPEISLRTDLIRALSSTM NLVHPSTHTGEVP*EC*LCWKLSGDKLH SLTVEFISVFSLLGL

2247	10298	A	3182	441	1074	QRVQRSLKK*CWG/FNWGHSGGK1*KQI GPyLNTG/TRLKSKW11VPONCISRRQQG KRVHGLGKDFLNPPTKAQSM/RGKDK LYFIKIEENFLSKGTIRRTKRAVEWOKI/Y LQNISDK*VASRLHKEVSKLNKVKP1VDL MRCF/RPELAASGPCSLSFSICFQH*1QNV LLEIQRVRSHPSELNSNRPWHSKVNLS QCWAHKJEAPLFSL
2248	10299	A	3184	178	488	VSTVPGNTVRNKTEDDSGGNWEPRTI LQASGKLKNPKARLASEC1SPFDSTGKAI HLCQVCRGARSRSHYSLGHH/MRHSIIVG E*S*KCPGCGKGKFSTKLDLRW
2249	10300	A	3185	7	310	KKRSHCAQAGLELLSGQLG*TSSVQKIR KLAGCGVHPWSQLLERLWEDSLUPQG GQGCSEP*SHHCPTPAWATE*DPSVSNNNK QKQPKPESNLSRATSRP
2250	10301	A	3186	65	203	KGDFOGHQGPWDAPP*PAFWWQREAR GEGEAMQSFCRGRGNAEMYRPSAQPE TGFASG**TEAARGSGWAEPWPRG*KP PEPMRMLGWFPPTPGAFSLPILCDEERB* GQRSSGCESQLELRSPRETELQVTSPTCF SAGPRRPGPAPGPGQAARAYCCHLKTSS EPTFHQAPTQAEVSWFSPA/PPADKEMT SMATPEKCPSTSQAPAIRKAALPHPERGN YFLSAAWPQGAPPPLWGSASFPVVALPWS PRAGAAPLCPGKAPPSKTRLGRAVTFP* AEGTGRGRGHVAVPLPWERQRGNV
2251	10302	A	3188	1	2559	
2252	10303	A	3189	259	3222	
2253	10304	A	319	160	747	VLNGSGRPSQSKKHFPPKPGTFGGAVH QMFIIMSLPA/GPDLSGFDEDDKGWPENQ LDMSDYSSSYQDVACYGTLPRDSPRN KEGCTSKTPHALTVSPFKGIFSSATKVFO APNACKRGA*GKG*PWEKGASSKPGRD FLREGRKMSWKLFRKLISQPYVPGV CLTSVFTIASLGEQGMVFPKLVDLFKL G
2254	10305	B	3190	114	2876	MDKFLDTYTLPLRNUOEVEESLNRPTGSE IEAIIINSLPTKKSPPGPDGFTSEFYQRYKET VVCRSLPPSFNGGLPLGLSDLVFVAPGPO KIIWVMVHVGAALAKLDQGFSPLDVGVHG FCFRNHHQTGSPAAGANQRDPLAATL GGGEQOSAVARTOEKKNHQPGAQYAN RLSPRVRFINAAGTTQFPTGKRAVSAT QLMVVKDDVTYAIKLCSCWPGLDIIIPSCLA LHRIETLMGKFDKGRLPHTPHMLRLA IE

2255	10306	B	3191	1	2640	MEIRGRVEQRVGTYIEQINHMRDVFGR LRAEDVFPPVIGVAAHGGVYKTSVSV HLAQDLALKGLRVLVVEGNDPQGTASM YHGWPVDPDLHHAEDTLLPPFYLGEKDDVT YAKPTCWPGLDIPSCLALHRIETELMG KFDEGLPLTDPHMLRLAIETVVAHDYDV IVIDSAPNLGIGTINVCAADVLLVTPAE LFDPSPALQFFHMLCDLVKNVDLKGFFEP GELAPLYGCWGRLRTGIAVACAPHASL NLHGLNQIRNWKQSVYLMNLRKSGTL GHPGSVDETTYERLAEESLDSLAEFFEDL ADKPYTFEDYDVSGSGVLTGKLRDGL ATYVINKQTPNKQIWLSSPSSGLKRYDW TEKNWVYSHDCVSLHDVLAAELTALKL TKLDSLSSLAYSGKELDAQPGYVMLHQAQ YMLRPPLSSPMQHRAPEGTGTSRNSVLN AVTPAAPTTPSPSPLFDSRGSPPRKTQVN QQFIDEDENYTSGDNHHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEESLFNKAY YGGGTNFRRKESQKLQQSAKKRDAAELA NGALGIELNNDYTLKKVVMKPLITSNTVT DEIERANVFKMNGKWLFTDSRGSKM IDXGSPXKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQFIDEDENYTSGDNHHTLRDPH YVEDKGHKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFRRKESQKLQQSACK RDAELANGALGIELNNDYTLKKVVMKPL ITSNTAAANQESSHVQQQALALEQFLE RTOALEAQIVALERMRAADQTTAKQGM CTQVHLTNTSRHAGRPSKCCQFCSTRRQR HRLSDPKQDGLNRRFSPPP*
2256	10307	A	3192	1	454	MERRNRRTGRTEKARIWEVTDRTVRTW IGEAVA AAAAADGVTFSVPVTPHTFRHSY AMHMLYAGIPLVKLQSLMGHKVSLNSSTEV YTAKVFLDAVAARHRAIRVPRQQGDYRT RIWKFEDGLSNVLVIIQNLKLIICVMCLVR DCDVLKTYFHL
2257	10308	A	3193	2758	2946	
2258	10309	A	3194	2372	3570	EALLPGDQDSQSGKGVAAREVWFPLSSP APVLLRLVGNHHVGDNSIDSWSKNAGR/V FKDSDFKFDANDPLKQDQEWWSGSATFT SDGKIRLFYTDYSGKHYGKQSLTTAQVN VSKSDDTLKINGVEDHKTIFDGDGKTYQ NVQOFIDEDENYTSGDNHHTLRDPHYVED KGHKYLVFEANTGTENGYQGEESLFNK AYYGGGTNFRRKESQKLQQSACKRDAE LANGALGIELNNDYTLKKVVMKPLITSNT VTDEI

2259	10310	B	3195	I	2232	MKLMETLNQCNAGHEMTKAIKAIQFNDSPEAKRTTRWRIGEADLGVGVSQAI DAEKAGRLLPHDPMERGRVGRVQGYTIE QINHMRDVFGTLLRAEDVFPVIVGAA HKGGVYKTSVSHLLAQDIALKGLRVL VEGNPDPGTASMYHGVWPDHLIHAEDT LLPFLYGEKDDVTYAIKPTCWPGLDIPS CLALHRIETEFGMKFDDEDDNAAGMVRVL QPFSTSDEKSVSFTI,TFPGKHLRRDKSLT TAQGCDKINNKTSPEPTSPDLALKGLRV LLVEGNDPQGTASMYHGVWPDHLIHAEDT DTLLPFLYGEKDDVTYAIKPTCWPGLDIPS PSCSLALHRIETEFLMGKFDEGLKLPDTPHI MLRLAIEVVAHDYDVIVIDASPNLIGITI NVCVAADVLLVTPAELFDVTSALQFDFD MLRDJLKNVNDLKGFEPDVRLLTKEYNS NGSQSPWMEEQIRDAWGSMLVKNVPEPE NGEVQGXKXGSPQLNQEKFMFRIRNRSY DRDSEYLLQNEEPGDTLQKLLDEDLQKK KNDLRYIEMQFPFLVSSRWWVTKRGELT AYVEDTVLSRRTSKQYFFLNDVLLII TKKKRRSDSSLREGDNQKAYKETGYVS HTRHDMQLQPKQQNQEKYVQPQDFQST IKNIESAKGLDVSAGMVPQLHLTE KSGYSTLTIPVNLQTSLSLTQRKVCMCQL VTHLKSTWEHKVDTGGERKTYQKRS AVFRMKGILHSATTI*
2260	10311	A	3196	I260	1340	LPMLAALVGFCRFRNHHQTCGFSPAGANQ RGLPLAATLNGQFQGGSQASVRLTGEKK NHPIQAYANRSLPVRGRFNAAGTTGFTGK TGKRAFGCRFRNHHQTCGFSPAGANQRG PLAATLNGQFQGGSQASVRLTGEKKNHPI GAQAYANRSLPVRGRFNAAGTTGFTGK RAGFCRFRNHHQTCGFSPAGANQRGPLA ATLNGQFQGGSQASVRLTGEKKNHPI QYANRSLPVRGRFNAAGTTGFTGK QAQAK*WHYREPLLRLAQLTNSPGQQL KSDQWPVQKQFSSGSDYQLHPPFHVQ HFLPCCRPRHPEFAPPSTGTESHYWCIVH
2261	10312	B	3197	200	2602	MOLARQVSRLSELSGVKHEGQHTKMSQ VLWRSQEENPATLGNQNLQFDWIPQNL LGHPKTKAFITHGGTNTGIEYAEVHGPV VGVPMPFADQPDNIAHMKAQGAEEVEV LNTMTRPGGEQGSQASVRLTGEKKNHPI AQYANRSLPVRGRFNAAGTTGFTGK AVSATQLMDFADFGTITKQDFRLLGQTS VDRLLQLSQQGAVKGNQLLPSVSLVKKR TTLAPNTQATSPRALADSLMQLARQVS LESQGDFAFDGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPSVSLVKKRLLT PNTOTSPRALADSLMQLARQVSRLSES QILPDPGPHIHQTEFSPAGANQRGPLAAT LSGPQGEGGSQASVRLTGEKKNHPIGAQY ANRSLPVRGRFNAAGTTGFTGKRAVS ATQLIPKVDKTTKIGKKSRSRGTGNSKQ SASPQPKESSSSHATEQNWNTEDFDELRE EGFKRSRNSCQELQEVQTHGENDFKEVNL DDEWLTRITNEEKPLKDLMEMLTKTAQEL RDKCTSLSRNRQLELERVSVMEDQMNE MKREEKPRERKIRNEQSLQEIWDYVVK PNLRJLGVPSDEGNGTQLKLENTDQIJD FADFDTIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPSVSLVKKRLLTAPNTOT ASPRALADSLMQLARQVSRLSESQHQAPC MKSNNALIVLGLTVLDAVGIGLVMPPV PGLLDRIVHSDSIAISHYGVLLALYALM FLCAPVLAALSDRGRRTVLLASLJGATI DYAIMATIPVLWLYPLVNNSPC*

2262	10313	B	3198	1	3198	MKLMLMETLNQJCINAGHEMTKAIAIAQFND DSPEARKITRWRIGEAEADLGVGSSQAIR DAEKAGRLPHPDMEIRGRVQEQRVGTYIE QINHMDRVFGTRLRRRAEDDVPPVIGVAA HKXSPVIGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTASMYH WVVDLHHAEDTLLPFYLGKDDVTYAI KPTCWPGLDIIPSCLALHRIETLMGKFD EGKLPTDPHMLMRLAJETVAHDYDVIVID SAP
2263	10314	A	3199	1	2259	
2264	10315	A	32	603	855	GGWIMRSGVRDQPDQHGETLSLLKLQK LAGHGGACLS*SQLVRRRLRQEYHHLNPGG GGCSEPRFGHCAPAWATE*DVSVGKKK KKK
2265	10316	A	320	1812	5065	PNKTTGGKTVSDGLHJHPSQLHSKLENDQ GFYNVDSSTGFHNKTNPVGPFRKSPFLV MGVDWAETRRSSMMQMRRAPMSDIL ARDRGSRSLRGNRNRRNGGGCRDDDDG GGAGAVRTGEGATEELPPVGRVRPQH RGELFVLSSAGDLHRRDRDTHRGGAGSG GGSAMASAGGVGGGGGGKIRTRRCHQ GPKPYQQGRQQHQVSSSRPDLSGFDT DKGWPNQNLDMSDYSSYQDVACYGTL PRDSPRNRKEG
2266	10317	A	3200	1	2418	
2267	10318	A	3201	1907	5097	TSKK1VKQAPVLTFTTA/LLAGGAIQAF KENNHKAYKETYGVSHTRHDMIQPKQ QNEKYQVQPQFDQSTIKNIESAKGLD DSWPLQNADGTVAEYNGYHVVFA LAGS PKDADDTSIYMFYQKVGDSDSWKNA GRVFKDSDKFADNDPILKDQTQEWQS ATTSDGKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKNGVEDHKTIFGDG KTYQNVQFIDENEGILPSEPPKQDFR LLG
2268	10319	A	3202	891	2136	GATQAFAKENNQKAYKETYVESAKGLD WVDSWPLQNAQDTVAEYNGYHVVFA AGSPKDADDTSIYMFYQKVGDNSIDSW KNAGRVFKDSDKFADNDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKNGVEDHKTIFD GDGKTYQNVQFIDENEGILPSEPPKQDFR DPHYVEDKGKHGYLVEFEANTGTENGY EESLFNKAYGGGTINFRKESQKLQGQA KKRDAELANGALGIELNNDYTLKKVM KPLTSNTVTDIEERANVFKMNGKWL TDSRGSKMTIDGINSNDIYMLGYVNSL TGPyKPLNKTGLVJLQMGLDPNDVFTY SHFAVPOAKGNVNVTSYMTNRGFFEDK KATFAPSFLMNKIGNKTSVVKNSILEQ QLTVN
2269	10320	A	3203	1	3987	
2270	10321	A	3204	2	247	QAGGFSSSLRMASIFSIHSVGTRDLSRLS TILSPLYNTVAPGAN*CRELKVLDA VLSTEVKRVIISSASNITPAFFCS
2271	10322	A	3205	1099	2224	DGQQLIALHRLALRELQQAVHAGLPQQ AKILFDGSE/TRQNPLQQLVHMGLPRPL DKKNFQEP
2272	10323	A	3206	1366	2673	
2273	10324	A	3207	1	7035	
2274	10325	A	3208	1	2328	
2275	10326	A	3209	1	2328	

2276	10327	A	321	819	1242	KAYASLSLWQAPSSESRPAPAAADLRGS SG/RPP*TFPNPPCGPHTGCPAGSFIFISFQ PRCLLVAKSKPGMPVSEDAAYESPWK GAGAPALGLGALSSVEDRALQAA WAPRDAAGRDLPGQDRPQGPAGASLGP SRS
2277	10328	B	3210	1	2541	MPRQVGSPGPPLLGVAGQAAVGTGGKK SLCYRKPGDGSIVSLKIDWIIERYLQLPQ SYQHRKAGECCLLHEYEDLVPIRDTLRLF PGGRYLPRAKHVAPSEPDPEQDEQKLIRD FADFGTTIKQDFRLLGQTSVDRLLQLSQ GOAVKGNGNQLLPVSLVKRKITLAPNTQT ASPRALADSLMQLARQVSRLSREGQDFA DFGTTIKQDFRLLGQTSVDRLLQLSQGQ AVKGNGNQLLPVSLVKRKITLAPNTQTAS RALADSLMQLARQVSRLSREGQDFA TICKQDFRLLGQTSVDRLLQLSQGQAVKGNG GNQLLPVSLVKRKITLAPNTQTASPRALAD ADSLMQLARQVSRLSREGQDFA QDFRLLGQTSVDRLLQLSQGQAVKGNG LLPVSLVKRKITLAPNTQTASPRALAD LMQLARQVSRLSREGQDFA RLLGQTSVDRLLQLSQGQAVKGNGNQLP VSLVKRKITLAPNTQTASPRALADSLMQL LARQVSRLSREGQDFA QTSVDRLLQLSQGQAVKGNGNQLPVSL VKRKITLAPNTQTASPRALADSLMQLA RQVSRLSREGQDFA TSVDRLLQLSQGQAVKGNGNQLPVSLDD VITYAIKPTCWPLAIPSCSLAHRIETELM GKFDGKLPPTDPHMLRLRAIETV VIVIDSAPNLLGIGITINVCAADVLLIVPTPA EFLDYTSALQFFDMRLRDLLKVNDSLKGFE PDVRILLTKYSSNSNSGSPWMEEQIRDA WGSMLKNNVVRETDEVGKQIRMTV EQAIQDRSSTGAWRNALSIWEPVCNEIFD RLKPRWEIR*
2278	10329	A	3211	1	3849	
2279	10330	B	3212	1	6724	MDNNFAPVFTMGKYYTQGDKVLMPLAI QVHHAVCDGFHVGRMLNELQQYCDEW OGGADFADFGTTIKQDFRLLGQTSVDR LQLSQGQAVKGNGNQLLPVSLVKONTSRP SMHVDFVAAESKEVVPQDGIPPPKRPL KVSQKISSRVENLNTLNLPKELMLCHHQ EEAGAGEDLDRVYDLMIFFVRENRTQVD HHCMWMTLLLKVKKWFLKMEYLHQ NGHSKYHRRFLPVVGQAIEDGVLSTV RIGFSHHLL
2280	10331	A	3213	532	1232	
2281	10332	A	3214	8749	11698	CSWHDRFPDWKAGRILPISEPPSNRIFAC WKGPAWTGGLQLSQGQAVKGNGNQLPVS LGFGRGPASNPGAGPGASVAAAAAA AKAAAAAAAPPVDAAPPHSAAKLEERK PDPDRFDADFGTTIKQDFRLLGQTSVDR LQLSQGQAVKGNGNQLLPVSLVKRKTTLA PNTQTSAPKALADSLMQLARQVSRLSREG QDFADFGTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNGNQLPVSLVKRKTTLA QTASPR
2282	10333	A	3215	3	452	
2283	10334	A	3216	24	609	GIPQTQREPTMVLSPADKTNVKAAGWK VGAHAGEYGAELERMFLSPFTKTYF PHFDLSHGFCPGLRLATGKVKVADALTN VAHVDDDMPNALSLASLDLHAKLRLVG GSTFKLLSHLPFW*TLGRPPSPAEFOPLA VARLPWEKFPGFLFVEAPLLDQ1TFKV SGWPLFFCPGPPSPSSPFLHYPYRGL

2284	10335	A	3217	3	583	EPRLRKAGGLLSRSRQNDQEGRGEAQGWFPAVGARGVVPPQPVWQTGTWQGNTGQRVPQLPHPPPIHLVSRHRGKLRHGFRLRPMPEPRGLESGKT/TCQCSGCSMSYVTMRAKRPWEGGHDTLTQOGGCRSSVCGRRAAEALPRRVWCGEGPQWTWCAVCPNRSAPGAGLADPRQHGPESRAWGETRLGEAGGAE
2285	10336	A	3218	3	398	
2286	10337	A	3219	1766	3896	NTKLDQAQQAPEDHYPISLLLPSHMAIGLJMAQEGHKCDSSAMGEEAHHPLTPATPPPLPSDWDGHIMQPDFPVAVPAVFRGPPOLQCHGRRLFLNSPCAQKSSSGLVVEPLSLRILLEMVKLTSMRQFQLEAQIPTGISLTQLQYOKQTNKNMMSYFSVFLFKWVALGQGRAGYPSLEADSRRFNGSRSLITVIGITLTVEITVSGMMKGTRVRWSGAGNEGMMGLEEGRNERSVKEAPPRAVEAQPKDRTWDVGKQGTEGEGRGLEVEGQQHQGSEPTIPFSVWGVLLAGLCLVPSLVEDPOEDAQKTDTSHHDOGDWEDLACOKISYNTDLAFLYLYKSWLHYHNAQHVLVPTTSVAMAFAMLSLGTKA DTRTEILEGLNVNLTEITPEAKIHECFQVQLQALSRPDTRLQLTTGSSLFVNKSMMKLVDTFLEDTKKLYHSEASSINFRDTEEAKEQINNNYEVKRTGRVVVDLVKHLKKDTSLSLA LVDYISFHGKWKDKFAERIMVEGFHVDDKTIIRVPMINHGLRFEDIHDRDELSVVWLAQHYVGNATAFFILPDPKKMWQLEEKLTYSHLENIQRADFIRSNLHFKPLSISGTYKLKRVPRLNLGITKIFSNNEADLSGVSQEAPLKLKSAVHVAVLTIDEGTEATGAPHLEEKAWSKYQTVMFNRPFLVIIKEYTINFPLFIGKVVNPTOK
2287	10338	A	322	2	373	PRVRVRVDRVSGWGGKMDLFVLVTVKRVVIDYAVKILVKPDWTGVVSDDGVKHSLNPFCDIADVEAVLKEEKLVKEGIAVCCGPAQCOETNRTALGGMGAHRIHVEVSP**AQLCPLQVARG
2288	10339	A	3220	3	1226	MRNKNPRQRGVREARPAGGGAGPGWRGARCSGAGEGGGERGRSPPAALALAPASGPRRNPPDARCLIYQQHQAGAFFLAGSA SLSAVTGVPEGEARFTEDYCPPEEKMFGP HKPKMYRSIEGCCISGAKSSSRFTDSKRYEKDFQSCFGLHETRSGD/CNAVCVLV KRWKKLPAAGSKKNWNHVVDARAGPSLTKTFPKKVEVKTLGSNURIKSTQISKLQK EFKRSNSDAHSTSSASPAQSPCYSNQS DDSDTESMASGSNRPVFSFLDLTYWK RQJICQHYYKGRFGEVLIDTHLFKPCCSNKAAAEEPEEQGPPEPLPISTQEWTECP DLSLVSWRPLPLSSLPAGCSLHGLAADWTIDMITVTTSKCREPSCQQEGSFQRRKAFKRLPKMAEVQVLL
2289	10340	A	3221	1	269	
2290	10341	A	3222	240	377	SNTHRVPFTFDAWEVEMVTSLIQLSFLL*PPIHCLKLQ*DPLHSP
2291	10342	A	3223	47	263	
2292	10343	A	3224	416	498	KRLSLQSFLLLPHIHCCLKLQ*DPLHSP
2293	10344	A	3225	1	305	RTRGRTRGGDGHHGSGGRNGGGSMN APPAESELPLRG/QRRTINKDVKVPNAC LFTMNKEDHTLGNIIKSRACFPPFAFCRD CQFPEASPAITLKVQPAEL

2294	10345A	3226	74	562	GSOGGGGGHLSGRNGGSMNAPPAGE SFLLFEGEKGK/ISDAGCGGPRITINKDITKV PNACLFNTKEDHTLGNIIKSQRDLKDPO ALFAGYKVPHPLIEHIIIRVQTTPDYSPO VRAFTNRQSPDLISELSSLGGSAFRGGHK KTSQERNLJSLRGARGGLCSGL
2295	10346A	3229	1	2661	
2296	10347C	323	303	395	
2297	10348A	3230	1	1454	
2298	10349A	3231	1	2364	
2299	10350A	3232	1	1368	
2300	10351A	3233	114	1473	VKGDRFGALRFNDCPAGIKLPMTTFTTEL EKTTLKFIIWNQKRARIAKSILSQKNKAG GSTLPDFKLYYKATVTKTAWYWYQNR DIDQWNKRTGPSEITPHFTYNYLIEDKPKEN KQWGNDLSLFNKWCWENWLAJCRKLKL DPFLTPYTRINSEWIKDLNVRPKTITLE ENLGIITQD1GMGKDFMSKTPKAMATKD KIDKWDLIILKSFCTAKETTIRVNROPTK WEKIFATYSSDKGLSRIYNELKQIYKK TNPIKKWAKDMNRHFSKEDIYAAQKH MKKCSSSLAIREMQKTTMRYHLPVRM AIKKSGNRRCWRCGGEIGTLLHCHWW WKLVOPLWKS <sup>W</sup> FRFLRDLLEIIPFDPAJ PLGLIYPDNYKSCCYKDTCTRMFIVALFT IAKTWNOPKPTMIDWIKKMWHIYTME YYAAIKNDEFM/SFVGTWMKLEJILSKL LQEOKTK
2301	10352B	3234	I	1890	MDKFLDFTYTLPLRNQEEVESLNRPTGSE IAVIAINSLPTKKSPGPDGFTAEFYORYKEE LVPFLKLKFQSIKEGILPNSFYEAHSILP KPGDRDTKIEFNFRPISLMNIDAKILNKILA NRIQQHKKLJHHQDVGFTPGMKGWPN CKSINIIQHINRTRDKDNHMHISDAEKA KIQQHFMILKTLNKLGIDGTYLKMIRITY DKPTANIIUNQOKLEAFLKTGTRQGCP SPLFLNIVMELLARAIROKEKEIKGIGQLQKE EVKLSLFADDMIRIKYLGQIQLRDMKDLF KENVKPPLNEIKEDTNKWKNIPCSWVGR INVVKMAILPKVIVYRFNAIPKLPMTTFFTE LEKTTLNFIWNQKQARTAKSISLQSKNKA RGIMLPDFKLYYKATVTKTAWCWWYQNR DIDQWNKRTGPSEITPHFTYNYLIEDKPKEN KQWGNDLSLFNKWCWENWLAJCRKLKL HPFLTPYTTINSRWIKDLNVRPKTITLE NLGNTIQQD1GMGKDFMSKTPKAMATKA KIDKWDLIILKSFCTAKETTISVNROPTK WEKIFATYSSDTGLSRIYNELKQIYKK TNPIKKWAKDMNRHFSKEDIYAAQKH MKNAHIIHWPSEKCKSKHNEIPSHTS*

2302	10353	A	3235	-	1	2676	MKAEBIKMPFEINENKDITTYQNLWDAFK AVCRGFIALNAHNRKQERPKIDTLTSQ LKELEQEOOTHSKASRQRQEMTKIRALEK EIEIOKTLQKINESRSWFFERINKIDRPLA RIJKKKREKNQDIAKNDKGDTTDPTEI OTTIREYYKHLYANKLENLEEMDKFLDT YTPLRNLNQEEVESLNRPITGPEIAJNSLP TKRSPGPDGFTAEFYQORYKEELVPFLLK LFQSIEKEGLPNPSFYEASIIILPKPGRDTT KKENFRPISLNMIDAAKILNKLILANRQHQH KKLJHHDDQVGFIPGMQGFNFNIRKSINVV QHINRTKHNHMISIDAEKAFDKIQQQPF MLKTLNKLISIDGTYKJIKRATYDKPNTANII LNGONLEAFFLKTGTRQGHPLSPLLFNIV LEVLAIRQEKIAQNLKLISLNFRKV SVKINVQKSQAFLYTNNRQTESQIMRE LPFTIASKRICKYLGQIOLTRDVKDLFKENY KPLLNEIKAEDTNWKWNIPCSWIGRINIVK MAILPKVYRFNAIPKLPITFFFTELEKTL KFWNQKRAHIAKTILSQKNNKAGGIMLP DFKLYYKATVTKATAWYQKQRDIDQW NRIESEIPIHYNHJLFDKPDKNKKWQK DSVFNKRCWENWLAIKRKLKDFTLFTPY TKINRWSIKDLHVRPKAIKTLEENLNGITQ DIMGKDFTSKTPKAMATKAKIDKWDL KLKSFCATAKETTRVNQPTKWEKIFAY SSDKGLISRIYKELQIYKKTNTNPKIKW AKDMNRHFSKEDIYAAVRHMKKCSSL AIREMOIKTTMRYHJLTPVRKAAJIKKSSNN RCWRGCGEIGTLLHCWWDCKLVQPLW KTVWQFLRDLEIIPFYPAIPLLGIYPKD Y
2303	10354	A	3236	-	1	3045	MDKFLNTYTLPRLKQEEVESLNRPITGS DIEAISLSPPTKKSPPGPDGFTAEFCQRYK EELEKEGILPNPSFYEASIIILPKPASDTIK KENFRPISLNMINAKILNKLILAKQIROHK KKLJHHDDQVGFIPGMQGFNFNICKSVNIOHI NRTNDKHNHMISIDAEKPFDKIQQHFML KTLNLAQNLKLISLNFSRVSQYKINVQKSQ KSQAFLYTNNRQTESQIMNEPFTIASKR IKYLGQIOLTRDVKDLFKENYKPLNPKIDEDTN KWKNIPCSWIGRINIVKMAILPKVYRFN AIHKLPMFTFTELEKTLKFIWNQKGVH IAKSILSKNKAAGGIMLPHFKLYYKATV TKTAWWYQNRYTQDCNRTPESEIPIH YNHJLMTDFDKDNKWWGKDSLFLNKWCW ENWLAICRKLLKLDPLTPYTKINSRWIKD LNV/RPKPIKTLLEENLGGITQDIMGKDFM SKTPKAIATAKAKIDKWDLKLKSFCATAK ITIGVNRQPTELEKIFAYSSDKGLISRIY KELQKQYKKVNNPIKKWVVKDMNRHFSK EDIYAVNRHMKKCSSLVIREMQIKTTM RYYLTPV
2304	10355	A	3237	-	1	2142	
2305	10356	A	3238	-	1	1551	MRFKEKIHJHNKEPSEAASADGGAVAS YPDLAIVDEGRYKAEVMQLRCGWRAP ASCDVHSVAVVGVDVSLEVLARAJQE KEIKGIOLGKEEVKLSLFAADDMIVYLENP TVSAQNLKLISLNFSRVSQYKINVQKSQ AFLYTNQKOTESQIMSELPPFTIASKTIKYL GQIQLTRDVKDLFKENYKPLNPKIDEDTN KWKNIPCSWIGRINIVKMAILPKVYRFN AIHKLPMFTFTELEKTLKFIWNQKGVH IAKSILSKNKAAGGIMLPHFKLYYKATV TKTAWWYQNRYTQDCNRTPESEIPIH YNHJLMTDFDKDNKWWGKDSLFLNKWCW ENWLAICRKLLKLDPLTPYTKINSRWIKD LNV/RPKPIKTLLEENLGGITQDIMGKDFM SKTPKAIATAKAKIDKWDLKLKSFCATAK ITIGVNRQPTELEKIFAYSSDKGLISRIY KELQKQYKKVNNPIKKWVVKDMNRHFSK EDIYAVNRHMKKCSSLVIREMQIKTTM RYYLTPV

2306	10357	A	3239	1	1458	GLSGDLLGAHQLPDVLCGVQPLPDLLP PQNLLALQSLQDDLLWALDPAAAAPWA MDRGAATQWAVGPVSDPWVMEAVAS LPSMDLDSAAQPTWLLGAASLLVTDQ PMDQPSADQLAEPFDLSSKVVSQSLRIKY LGKILTRNVKDLFKENYKPLNLNEIKEDTN KWKKNIPCSWVGRINIVKMAILPKVYIERTN AIPKLPMTFFTELENTTLKFIFWNQKRCACI AKSILSQKNAKGSIMLPDFKLYHJKATVT KTAWYQYQNRDIDQWNGNTEPESEIMSHY NYLJFDPKEKNNQRGKDLSFKWCWEN WLAIACRKLKLDPLTFPTYTKINSRWKJDLN VRPKJJKTLEENLVNTIQQD1GMGKDFMSK TPKAMATKAKIDKWDL1KQKSFCATAKET TIRVNROPTEWKIFAIYSSDKGLSRIYK ELQQYIYRKTKNPIKKWAKDMNRHFSK EDYIAANRHMKCCSSSLAIREMQIKTTM RYHLPV
2307	10358	A	324	268	393	W'VTNFGEISGTIAIEVDGTYIHALNN GLFTLGAHK/ERIALKPQYGYKYLINSND ELVV/GRSDAIGPREQWEVVFQNQEVRN GGPAEMGEEKRNGTWKREDTDHTSFPL FPSTGGQPKAHNSWRKVCH
2308	10359	A	3240	1	2028	
2309	10360	A	3241	2	1547	
2310	10361	A	3242	3	1945	
2311	10362	A	3243	1	2124	
2312	10363	A	3244	1	2250	
2313	10364	A	3245	2	2483	GKYYKLSSGTAPTCVSLGWGLARGDSA APALGSRSTACAPCAPSHGTWKLSLEPSDR LSPCDRSSEEAHHTPHAPRLLALVSLPW SRPLLLAPOSHSEAEATSQPTGVENHIO KTRVVKAGGPVICRSLPESRGFLWASEG RKCMLGWSAAMGRLRKSTISSRJGPQT LAGTGRPQAIPVLLKHSDAVLLGVCFCL LJLHHOELGENADQSQTLPOTHWFELFS EDYNNKMTPVKNYQVLEVLLARAMRQEKK QIKSQLGKEEVKLSVFADDMMVYLENPI VSAONLLKLISNFSKVGYKINVOKSQA FLYTNRROTESQIISELPFTIPSKRKYLG QLTRDVKDLFKENYKPLNLNEIKEDTNK KNIPCSWVGRINIMKMAILPRVYIIFNAIS IKLPLMTFFTELEKTLKFIFWNQKRCACI TILSQKNKAGGILTLPDFKLYYKATVTKT AWWWYQNRGVDQWNRIEPSEIPIHHNH LIFDKPDKNKKWGDLSLFTKWCWENW LAICRKLKLDPLTFPTYTKINSTWKDLN RPTKJJKTLEENLGIITQD1GMGKDFMSK TPKAMATKAKIDKWDL1KQKSFCATAKETT IRVNROPTEWKIFAIYSSDKGLPDRYKE LKQVYKJKSNNPIKKWAKDINRHFSKED IVAAANRHMKCCSSSLVIREMQNKTIRY HLTPVRMAMIIKSGNNRDMDEAGNHHS EQTIAARTENQAPYLLTHR WELNNENTWT QVEEIIHTLGPIVGVICRKVFPGNSGPSPK SGLHFSQPLPQVTSVVAKITIVPWEMLI AMGVQDELNIAFHKNHLLMNDTTIHMT PYIQPAPKS
2314	10365	A	3246	1	2622	

2315	10366	A	3247	853	2831	YPESTMNSNKFRKKQTPSKSG'R*TD TSQKKTMPMQKDT*KNAQHHWSLECKK SKPO*DTISHQLEWRSLSKQDRKD*QSTL LALIKKKQGKNOIDT/IKNDKEGITTDPR EJQTTIREYYKHLYTNTKVENLEEMDKFL DTYTLP TLKQKKEVKTLNRPITGSEIEAII NSLPT/KKSPGDRFTAEFYR/DIRSSQG NQARERRNKGYSIRRKRGSQIVPVC*HHC FRKPHFLSPKSS*ADKQLOQSLRJQNQSA KITSPIH*Q*TNREPNH*P*TIHNCFKEN KMPRNPTVKGCEGSLQGELQTTAQ*NK RGHKRMEPHSMLMDRKNQYRENGHTA QGNL*1QCHPHQATNDFFFHRIGKNYFKV HME'PKKSPHRQVNPKPEQSWRHHTT* LQTILQGYSNQNSMVLVPDQRHRPMEQ NRAFPNNTIHLQLSDL*Q*QKQEMGKG FPI**MVLGKLANIM*KAETGSLPHILYK N*FKMD*RLKC*T*NHKNPDRKPROVHS GIRHGOGLHD*NTKNSNGNSQN*QMGs N*TKELLHSTRNHYHQSEQATYRMGENFC NLLI*ORANIJNQLQRT*TNLQDKNQKPH OKVKGKGYEOTLLKRRRLCSQTKTHEKML IITGHQRNANQNQHNEIPSHTS*NGDH/SN QVRKQVLERMWWRN
2316	10367	A	3248	1	4954	MVFSDAQKAFDKIQRHFMLKTLNKLGI DGTYLKIRAIYNKPTGNIILNQKLEAFF LKTGTROGCPSPLLFNIVLEVLAIRAQ EKEIKGIOLGKEEVKLSLFAADDIVYLENP IVSAQNLKLIGNFSKVSGYKINVQKSQA FLYTNNRQTESQIMSELPTIASKRIVYL GIOLTRDVKNLKENYKPLNEIKEDETD KWKNIPICSWIGRHIVKMATLPKVIYRLH AIHKLPLMTTTELEKTTLKFHW
2317	10368	A	3249	25	527	EFRHRLRENPPMVAWSCTKTNKVAAWG NKGVAHARVSRMCAEALERMFLSFPTVTKT YPPHFDLISHGISAQVKGATGKKVADAL TINAVANVUDMPNVAVRPEATLHAKL RVDPVNFVLLKPLACLVDPGPAHLPRP SFTPGGATSSLGQSFGLLKHRCLNLPN YR
2318	10369	A	325	1	67	
2319	10370	A	3250	97	1360	SACAWRLPSPGPGSAMWPLWRLVSLAL SQLALPFEQRGFWDFTLDDGPFMMNDEE ASGADTSGVLHPDSVTPTIYSAMCPFGC HCHLRVWQICSDLGLKSVPKIEPDTILL DLQNNIDISELRRDDDFKLQLQHLYALVLLV NNIKISKIIEKAFLPLRKLQKLQYISKHNHLV EIPPNLPSLVELRHDNRIRKVKPKGVFS GLRNMMNCIBWMGNIPLENSG*EPAFDG LKLNYLRISEAKLTGPKDLPETLNELHL DHNIKQIAIELEDLLRYSKLYRRLGLHHNQ IRMIENGSLSLFPLREVHJADNNKLAR VPSGFPDLKLLQVYVILHSNNIHQSQVF NEIFLPWGFGGEAEGPYNGH/ISLFNNPV PYWEVQPATFVVVTDRLAIOFGOLQKV EAAAATLVSQWQSLGNRARIHPDGEAEP GS
2320	10371	A	3251	1	2535	

2321	10372A	3252	5	2333	NPILWLETQMASNERDAISWYQKKGAY DQQIWEKSIEQTOIKGLKNPKPKGMHIIK PDLDVDLIRGTSFAKAKPEIPWTSLLTRK GLVRVVFPLFSNWIQVTSLRIFVWL LLYFMQVIAJVLYLMMPIVNISEVGLGLC LMLLMGTVHCQIVSTQITRPSGNNGNRR RRKLRLKTVNGDSRENGNNSDKVRCGIE TLESVPPIGGFWETIPGRNIRKRVKLISNKG TETDNDPSCVHPIJKRRCRPEIRMCQTR EKPKFDGDEKCRREAFRRLNGVSDGELS SEEDGEARTOMILLRSVEGASDNGCE VKNRKSILSRHLSQVKKTTTRWCHIVR DSDSLAESEFESAAPSQGSRSVGSGGSRS LMSRSDSESTRHDSETEDMWLDDLH GPECRSSVTSDEGAHIVNTLHSGTKRDP KEDVFQNHLFWLQNSPSSDRVSADJW EGNECKKMDMSVLEISGHSMSRVNAYQQ GVGYQMLGNVVTIIGLAFFPPLHRLFREK SLDQLKSISAAEILTLFCGAPPVTPIVLSI INFFERLCLTWMPFFMCVVAERTYKQR FLFAKLFSHIYFCQOKLGYEIPFRJLKK VENIKIWLSSLRSYLLKRRGPQRSVDVVVS SVFLLTLSIAFICCAQVLOQHHTSWNDA YINWGVFDLGETALLLFLRLRASLGSETN KKYSNVSILLTEQINLYLKMEKKPNKE QLTLVNNVLKLSTKLKELDTPFLJYGL TNPFLIYNITRVLISAVSGVISDLLGPNI RLWIKS
2322	10373B	3253	73	358	XVPGSRSPETKLWDDFSMSQATKRKHV VKEVLGEHIVPSDQQIVRVLRTPGNNL HEVETAQGQRFLVSMPSKYRKNIWIKRG DFLIVDPIEEGEK*
2323	10374A	3254	80	201	
2324	10375A	3255	498	748	FLPRRGDNDSYPO/WTKACCRRTCW* T*TWWRSGQRKMWSCGRSLITCPMP RTRTAARLAMCGSGSWRRSGPSCGCLR SP
2325	10376A	3256	1	1764	MTTSQKHRDFVAEPMGEKPVGSLAGIGE VLGKLEERGFDKAYVVLQGLFVLKKD EDLFWREWLKDTCGANAKQSRSDFGCLR E/WCAKSRSRPAEVSELKADSKEGPQAQG PEQERTGL
2326	10377A	3257	842	1186	FLPRRGDNDSYPO/WTKACCRRTCW* T*TWWRSGQRKMWSCGRSLITCPMP RTRTAARLAMCGSGSWRRSGPSCGCLR SP
2327	10378A	3258	526	1158	SCGLSLIKMTTSQKHRDFVAEPMGEKPV GSLAGIGEVLGKLEERGFDKAYVVL QGLFADIEKMTSFREWLKDTCGANAK QSRDCFMRPFKWCCEALLVDALLGKFSI PPAPQSRSLASRSRDSSPCPSYEGKDICY CUTHLIIRRFRGSFGEFSPLNHFQLFFGI LRSWHAFPRPPFPWPWSVWTVYQLFLE WDFPGPIPPHPHFPQSV
2328	10379A	3259	35	407	
2329	10380A	326	163	552	AGFSLSAQKSPGAMA*YSYVKSLLVIL GTSSKKKSKDKKRKREDEETQLD/VGJ W*TVTNFGEISGTTIAIGMDEGTYIHALDN GLFTLGAPHK/ERIALKSGYKGKLGINS ELVGHSDAIGPREOWEH
2330	10381A	3260	3859	4052	ASCPNPKEFAPPRAGPPFWGPPALARVN PGALGPFSGTRPTPPQPLPEQRVLTSTN PWLAAVS
2331	10382A	3261	493	712	AHGRQLRKYSQQQGCSWRLPFCGCHAV SGGGCKCCISPANGPCGAA(CLGQPH NIPDPCECT/CGGCHAVSGGGCKCISSS WSLWCSPAIVSSHTSRIPVKLAGLPSP SFLPG

2332	10383	A	3262	51	539	
2333	10384	A	3263	742	4858	
2334	10385	A	3264	2	658	AFRLRMLFPESWMETRRGAPAPPAPRSET SHDLVATLMLRCTPHYIR*SNPTRPRGPET GRTA*TRSPQVPHLQHLPPTPRLVTPHP EGTQPTLPTRSSTRWNWTWA*RTTSGCES RLRLLPPPVRQIPEAYAILTPTETWPRWRGD EPRASTCFCGRSTWSPTRPGEHQGLCQ EPRVAPPGGAKRKFDGFARTIQKAWR RTWLSGSTRRCGRKLPTSC
2335	10386	A	3265	1	4095	
2336	10387	A	3266	26	173	
2337	10388	A	3267	387	1443	PRHKQAEPPRHHERLGRVRVHARHGR GSPRDTAAEAGGGCDPRAFOQLERRL RHPPLRWQGLLRRQRLLREPPRSSLRP HRADAVQ*PGLPPDALPREAGWRQEGA PQHRLQDYEETCQLTWWP**GAHPTTS AALNPTPRPGEPTGRRTESRWNWTWA* RTTSGCAEPASPTA/SQFAKFLQRYAILT ETWRWRGRDERIIGVQHLLRRAVNMEPD QYQMGSTKVFVKNP/VVAFPPGGAR KVRWLCPNHPGLAAPPRCPEVRGDA/R RKLPTSC*TRRSGGATASIGTSSGGTWG WRSGPSCVSSWARRSGWTSPIRSPSTTA ASSPSGT*S*RPSCVM*LGERR
2338	10389	A	3268	1	4496	MEGNVNAHRASGAQIRTCRAPPGATGC TALFKANSPEFTGLKSAQRGRGPVVGAP RKPSGLRQHREARERRLGWSQAPP AQAHPTAAQGDSTLLRSAVPGTCLLYAP HPQDFPPAGFLREQWWPRLLTLQVFLHL RTGGRVGPVDWLLGGGRLLQGHMP GPNLAAEVLLREARWPWGEAGGSE EPGGSVGGNCQARPLPSAHPQAQQGV GLEVGRGMVAPAASYFADEGRPNGDHP AROPRLGP
2339	10390	A	3269	911	2827	ERKHLGWMEFSIKQSPLSVSVVKCIKM KQAPEILGSAANGKTPSCVEVNRECSVFLS KAQSLLSQEGVMOKFNGHDAFLPFIAD KLKDLTSRVFNGEPEGAHDAKLRFSEQE MKGIGTPNTPKNGNSPEIJKLKITKTYM NGKPLFESSICGDSADAVSQSSENGQKPE NKAQRNKKRSIKYDSSLLEQGLVEAALVS KISSPSDKKIPAKKESCPNTGRDKDHLIK YNVGDVWWSKVSGYFWWPCMVSADPL LHSYTKLKGOKKSARQYHVQFFGDAPE RAWIFEKSLSVAFEGEGQFEKLQCESAKQ APTKAEKIKLLKPISGKLRAQWEMGIVQ AEEAASMSVEERAKFTFLYVGDQLHL NPQVAKEAQGIAAEISLGEAESSGVSESEA AENPKSVREECIPMKRERRRAKLCSAAT LESPHDIGKSTPQKTAEDP/RRRGVGSP PAGRKKTTVSMPSRKGDAAOSQFLVFCQ KHRDEVVAEHPDASRGEEIELLRSQWSL LSEKQRARYNTKFALVAPVQAEDSGN VNKGKRNHTKRIQDPSENAIDLEDTPRK GLRTDKHSLRKRDITTDKTARTSSYKAM EAASSLKSQAAATKNSDACKPLKKRN ASTAASSALGFSKSSPSASLTEREV
2340	10391	A	327	289	818	EPSRGVWPHEEDARINGSKKKSKDKKK KREDEETQFD/IVGIW*TVTFNDEISGTT AIEMDEGTYIHALDNGLFTLGAPHK/ERI ALKPGYGGYLISINSDELV/GRSDAIGPR EQWEPVFQNGACAAVFTVIGSEKQSECS LLRESRAKYHGCTHGQISSLKQHPRW YSHQEDLKV
2341	10392	A	3270	3	114	
2342	10393	A	3271	328	471	
2343	10394	A	3272	1	190	

2344	10395	A	3273	2	479	SGLGLRPGWPQEAGSSRGPSGSDMAGV KALVALSPSGAIGLTF/LHMLGCALEDYD VYWPFLVLF/FAHSIPIPHFIAKRVTYDSD ATSSACRELAYFFT/IGIVVSLCWISPVIL ARVALIK/WGACAFAVLAGNAVIFPYNS RGFLSYLGRGDDFWSWEQW
2345	10396	A	3274	3	586	ARAMGISRDNLHKRRKTGGKRPYHKK RKYELGRPAANTIKIGPPIRHTVVRVRGGN KKYRALRLDVGNFSWGSSECCTRKTTRIDI VYNAASNNEVLRVTKTUVKNCIVLIDSTPY RQ/WTPEEEEILNKKRSKQJKKYDERKK NAKISSLLEEQFQQGKLLACIASRPGQCG RADGVVLEGKELEPVLRKIJKARGK
2346	10397	A	3275	2	727	LFPASAEQMGISRDNWHPKURKTTGGPRE SPYQOEAKSMSLGRPAANTKILAPRRIQ HSPVCRGG*QVNTVPLRFWDVGNFSWGS KECCCTRKTTRIDIWVYNAI*PSWVRYPRP LVERICIVLIDEQHPYRQWVRSPTYALP LGPORKGAKLDSLRKEEIKPKTDLK*IQ KKYD*/ERKKNCONSAASLPGRRSSFPQGK ASLCIAFK/RPGCGRADGYMTRGHR VRSYLRKKIAROSKINT
2347	10398	B	3276	48	209	XKNQCETRTMQENGYSSHAvgDTGPAG GAGRPGSTGQAQVSVQPNFQQDKFLGR X*
2348	10399	A	3277	2	353	
2349	10400	A	3278	3	676	SAVEFPPSSLHTTGTRPRPTPILLQQENGY FIHTLWMGLALLGVLDLSQHRRPRSP CQPNFQQDKFLGRWFKRGLASNSSSWLR EKAALSMCKSVVAPATDGGFNLNTSTF LQEKTSVETRMLLQLPQRGVPVSAQLQTG VPHWGQA/HYSVSVVETDYDQYALLYYT RASKGPGEDEFRMATALYSRTQTPRAELK EKFTAFCKAQGFTEDTIVFLPQTDKCMTE EQ
2350	10401	A	3279	154	522	HVACGLLWIVVSPSAHLNLDGTTTKE LGTVNELLGGSNPTEAELQDMINEVMSD GNGTIDPFUEFTMMARKMKDIDTSEGR KLEEAFLRVFGLRVGNGLYLVACRNFRH VDGQTLGGGLPD
2351	10402	A	328	213	905	YVQSLKQILS/GCPEFSAIHKKKNNKDKKR KREEDDEETQLDIVGWWTVTNFGEISGTI AIEMDKGTYIHLDNGLFTLGAPEKHEVD EGSPPEQFTAVKLSDSRIALKSGYGYK LGNSDGLVVGRSDAIGPREQWEPVFK MGKMALSTSNSCFIRHVEADEDIEAKSKT AGEEEM/KGSPNLCTQTFM/ILPVLPEH RSLLLKIRSCAERETKKDDIPEEDKGNI KQCE
2352	10403	A	3280	1	1446	
2353	10404	A	3281	774	3564	VLSKGNERSQPRSPRLLLAPOLKAEEAAA DKGLAPVPPPFSSGHSGPVCEREGEGQRG RGRSRRGAHLELKPSPLGRAGAPIDRGR GGPAEVAAAGGRRMVQKESQATLEERE SELSSNPAAASAGASLEPPAAPAPGEDNPA GAGGAAVAGAAGGARRFLCGVVEEQL MTLISAAREYEIEFIYAIISPGLDITFSNPKE VSTLKRKLDQVSQFCGRSFALLFDIDH NMCAADKEVFSFAHAQVSITNEIYQYL G
2354	10405	A	3282	51	672	VLSKGNERSQPRSPRLLLAPOLKAEEAAA DKGLAPVPPPFSSGHSGPVCEREGEGQRG RGRSRRGAHLELKPSPLGRAGAPIDRGR GGPAEVAAAGGRRMVQKESQATLEERE SELSSNPAAASAGASLEPPAAPAPGEDNPA GAGGAAVAGAAGGARRFLCGVVEEQL MTLISAAREYEIEFIYAIISPGLDITFSNPKE VSTLKRKLDQ

2355	10406	B	3283	506	2416	MNPSAPSYPMASLYVGDLHPDVTEAML YEKFSAPGILSIRVKCDMDITRRLSGLYAY VNFOQOPADAERALDTMNFDVIKGKPVRI MWSQLRDPSSLRKGSGVGNIFIKNLDSIDN KALYDITSAFGNLSCKVVCDENGSKGY GFVHFETQEAAERAEIKNMGMLLNDRK VFVGRFKSRKEREAEELGARAKEFTNVYI KNPGEDEMDDERLKLDFGKFGPALSVKV MTDESGKSKGF/GFVSFERHEDAQAKAVD EMNGKELNGKQIYVGRAGQKVERQTEL KRKFQEMKQDRTITYQGVNLVVKNLDD GIDDERLRLKEFSPFGITTSAKVMMEGGR SKGFGFVGCFSSPEEATKAVTEMGRIVA TKPLYVALAQRKEERQAHLTNQYMQR MASVRAVPNPVINYQPAPSGYFMAAI PQTNRRAAAYPPSQIAQLRPSFPTWAQG ARPHFPONMPGAIKPAAPRPFSTMRPAS SQVPRVMSTQRVANTSTQTMQPRPAAS AAAATPAVRTVQPKYVAAQVVRNPQOHL NAQPVOTMOPAVHVQGQEPLTASMLA SAPPQEQKQMLGERLFLPIQAMHPTLAG KITGMLLEIDNSELHMLESPESLRSKVVD EAVAVLQAHQAKEAAQKAVNSATGVPT V*
2356	10407	A	3284	183	3080	PRRCSTGNSGRPKIIIRRAAEAEINEDRTLG RLLPGNERSQPRSPRLRLLAPQLKAEAAV DKGLARVPPFSSGIGSPGCEREGECQRG RGRSRGAHLELKPSGLURAGAPVTD'R'G RGPAEVAAAGGRMVMQKESQATLEER ESELSSNPAASAGASLEPPAAAPAGEDNP AGAGGAAGAGAAGGARRFLCGVVEGF YGRPWVMEQRKELFLRLQKWEINTLY APKDDYKHRMFWRREMYSVVAAEQLMT LISA
2357	10408	A	3285	3	452	
2358	10409	A	3286	26	526	NSTDSERTHPWLSPADKTTVK/APAWG KVGAHAGEYVSEALERMLFSLPFTKTY FPHFDLSHGFCPGLRLATGKKVADALTKR RGAPLDDMPNVALVRPLSLDHLAHKLURV GPGSTFKLLKPLACL\LTLPGAHLPRPSFT PGGCKASLGSFLGFLKHRCNLNLPNYR
2359	10410	C	3287	410	484	
2360	10411	A	3288	3	170	IRGSVVLSSLNFLNNTFFP*RSFISTSVMF* KPFISFLMILL*VFIFLSLKILSY
2361	10412	A	3289	831	1559	IAWAFKINWLPFLIFLISFLVLFYMFGFIFFFYL LYFSNTCLSLFFFHFLSETLDNFFYFLVSIIF QFSSSKVHFIAISFMFPSSLSSFFCILSRKF IFFSSKKYVVFIFLISLSPUFF
2362	10413	A	329	133	480	GYGKRSVKVRAWARCTGFSKTPNPWV NSQHFGRRLRWDADHLRSLGVRDQPCQHIGE TLSLLKIQKLPGCGGRCL*FQLFGRRLRQE N*URLNPGGGCSELRSHHICTPAWVTEQ DSVSK
2363	10414	A	3290	253	414	
2364	10415	A	3291	3	225	
2365	10416	A	3292	218	602	SFLLLPRCTAEKQRWGHQQLYWSHPUR KFGQGSRSCRVCSNNRHGLIRKYGLN MCROCFRQYAKDIRFLHSWTKCSSFRGL SGASTSMKPPWNSFVYIIIIHFKATEKK RKKNEIKRGPFCFKGPL
2366	10417	A	3293	33	494	
2367	10418	A	3294	1	609	PLKRSRGCGNDGRPTTAPTRPDITVFTSNL KQTRMVHLLTPEEKSATLWGVKNVDE VGGAEALORLLVVYWPWTQRFSEFGDLS PDAVMGNPKVKAHSVKGLRGAESDGL AHLUDNLKGTFATLSELHCDKAAPWIPE ELQAPWATCLVCVAWPITFGKRISTPPV AGLPNQENWLAWCWLNALGPTSNHLSL

AFLAGPISN					
2368	10419	A	3295	8	519
					SAQMAVTTADPRVRPRVRTOQLCSLASLI QTLLVHLTPEEKSAVTALWGVNVDEI VGKGALGRLLVYYPWTQRFI&ESFGDLS TPDAVMGNPKVKAHSKVKVLA&FSGGP GCTWDNLKGTFATHTEVSLHCDKULJHRGS LKNFRLLGQRAWSVVAQPHIFWQKNFN PTSCLR A
2369	10420	A	3296	3	333
2370	10421	A	3297	35	717
					RRSSPSLLPLAERGGARAGRPERAPHIPS TPATRTAPPPWARRMMKLKSNQRTYD GDGYKVKRAACLCFRSESEVEVLLVSISS RHFDRWIVPWKEGMARRKEAKCGKQ VREVCERGLGVKGTLGRLVGFENQER KHRTVYVYVILIVTEVLEDWEDSVNIGR KREWFKIEDAIKVQLQHHPVQASYFETL RQGYSANNGTPVVVATTYSVSGFRASMP RAFRWT
2371	10422	A	3298	81	426
					PSFHYAVLPLIINCGLGFFPSLRHWRWLHSM TDDPPITKPLTARKFIWIHNKFVNWTGPQ NNMYLILPLERFRRSGSHLQHLSKDN EQLKHAKYGAHVTTLLLFTIHYNSQLKLC CD
2372	10423	A	3299	180	484
					RQQAIFWHRWLHSMTDDPPITKPLTAR KFIWNTNHKFVNVTGPQNNMYLILPLERRF RSGSHLQHLSKDNEEQLKHAKYGAHF VITLHNTFTIHYNSQLKLC
2373	10424	A	33	200	559
					KNFFFLMEMF/SVLLPRLCECNGVISAHRR LRLPLSSYSPASSQVAGDYRACITTTAG* ILY**#TGFJLHVGVQAGLEPPTSDQPAL ASQSAJITGVSHCPQLKKSILHETPKGLT GVT S
2374	10425	A	330	27	201
					LQE*SRPSRSEAAIDLHGECYSS*GSTSG VVCSRWRAGLRLRSEAAADRSEYYSS
2375	10426	A	3300	591	942
					MAKTHFWDVDSGSMVPPEWHRWLHSM TDDPPITKPLTARKFIWDTKIFQRLGL HPRNNMYLILPLERFRRSGSHLQHLSK DNEQLKHAKYGAHFVITLFFFTHYN SQLKLC
2376	10427	A	3301	1	508
					NFALEAKNSARAISSYVQTPMGHFTTRGG PRLTITSLWGKVNVDEADGETPGKGS VYVWPWTQRFDSFGNLSAFCPSWITP KVKAHGKVKVLTSLQDAIKSTWDDLKG HLLPKPEVNCTVDKPMAMWDPEENFKAPG EMLLVTFRGQSLFRQKNNFTPEGCRASLG KKDGG
2377	10428	A	3302	3	452
2378	10429	A	3303	1	627
					TLLVPQDSERTHPWLSPADKTNVKAVA WGKVGHAHVRSMCAEALERMFLSFPTT KTYFFHPDLSHGSAQVKGATGKVKVAD ALTKRGRGAPLDDMPNALSSAELATLHA HKLARVGPGSTSKLLKPLACLVDPGPAHL PRPSSTPGGCNVFPGTKFPGLFVEAPLLE PSKLPLKLSLRLAIVFPLWGFPPAPP SCTRTPVVEIKS
2379	10430	A	3304	131	406
					EAMGLKLQVFLJLVLVALNHLKA&PIES HQVEKRKCNTATCATQRANFLVHSSN NLGGILSSTNVGSNTYGRKRAVEVLKRE PLNYLPL

2380	10431	A	3305	154	1702	IGHDRDPARGRSCRCGSYYSRVMCEKIALP QSEMSAGIWSLRTATILCLLAWLAGL DRVYHPPFLVHINESTCELAANEAGK PKDPTFIPAPIQAKTSPVDEKALQDQLVL VAAKLDTEDKLRAAMVGMFLNRLGFP YMMGMHSELWGWHGATVPLSPTAV GTLASLYLGLALDHTADRLQALLGPVWK DKNCTSLRDAHCKVLSALQAVTGLLVP GRADKQQAQLLALSTVGVGFTAPGLHLK QPFVQGLALYTPVVLPRSLDFTELDVAA ETIDRUMQAVTGWTGCSLTGAKADST LAFNTYVHPQGKMKMGSFLAEPQCEFW DNSTSVSPVMSLGMGTFQHWSDIQUNF SVTQVPPFTDMSAFLLILQPHASYSLDUDKVE GLTFQONNSFNWMRKLFLPRTHLTMPL VLQGSGYDLDQDLRPGSCPPFLHTELNL GRISGNUDRIRVGEVLNSIFPELEADEREP TESTQQLNKPVELEWPLTRPMLFAVYD QGATALALSWGRGVGKPA
2381	10432	C	3306	223	417	
2382	10433	A	3307	3	742	HEASCRSERRRQMDAFDTYDDRAYSSF GGGRGSRSGRSAGGGHRSRSQELPTPPY AVVGNLPPFTVQGDIAFKDLRSIRV LVRDKDTDKFKGCFYCEVDEDSLKEA LTYDIALLGDRSLRVDIAEGRKQDKQGG FGFRKGGPPDDRUGFRRDFLGGRGG/GLSR PGDRRTGPPMGSRFLRDGPPLRGGSNMDF REPTEEERAORRTTTPALKPRTVATPLNQ VANPNPSUFGGARPREEVVQEKEQE
2383	10434	A	3308	1	861	
2384	10435	A	3309	1	2076	
2385	10436	B	331	396	809	MAGCRSRALPHGEAAKAQRKVTAAGP GAKHLTAWGWOGLATPSVGAPEPTH ONSHWPASAVCSPSSRLRSLHTYQAE GAGGSLGLQPRKGLPQCCSSLRGKSSAAK VGAQAAEVPRASEACCEGQHATVSHKY *
2386	10437	A	3310	34	657	SDGRGCRCCAPRPRAMHMSFAIS/RCA FYQLLLAALMLVAMQLLQYLLSLSLGLH GOEQEQDQVFEFPFPSSPSSRVDQVKAHVRT ALASGGVLDVSGDVYRVRGLLKTMD PNDVILVATHASVETQCLHLSSGLL/ERW EGPAVPCSVFAATAKEEVAOLATVAYAL SSHCPDMPARIVAMHLVCPSSRVEYAAPD PREPGEFALLRSCQEVDFKLARVAQPGI NYALGTNVSYPNLLNRLAREGANYAL VIDVDMVPTTEGLWRLGREMLDQSNNW GGTALVVPFAEIRRAMPMNKNEVLUQ LYQVGEVPRPFYGLCTPCQAPTNYSR FNLPLEESLRLPAYVVPWQDPWEPEFYVAG GKVPNFRSRSGFRGYGNRISQACELHV GDFEVLANEGLVHKGFKEALKHFHPQK EAENQHNKILYRQFKQELKAKYPNWSR RRAQLATVLAYALSSHCPDMPARGRA PRVPLALRGSRARPAGGVPAAVLPG GL
2387	10438	A	3311	160	441	
2388	10439	A	3312	107	691	RTAILSRMKIFLPLVLAALLGVERASSL MCFSCLNQKSNSLYKLPKTCISCDQDNYC VTVSASAGIGNLVFGHLSKSTCPCL APPEGRSMLGVASMGHSASFCSQFLV FSCGPMAGLRLGRKSRPLLGRACCLSLAG RALLPLRDRPEPCSPDPPAEGKQPS WIPOCMGAPDSDSRLICALGPGRSG
2389	10440	A	3313	388	525	

2390	10441	A	3314	194	1131	PQHGGHFPRIKIKSCSWQARPLEDEATLG QCQVEALTTLEVTRPACLEVKSMVPWP VLEKVRQOTPQPKVAKHGEKKKKKTGRAK RRMQYNNRFRVNVPPFTGKKKGTTFTKIF VGGLPYHTTDASLRKYFEGFGDIEEAVVI TDROTQGKSRGYGFVITMADRAAERACK DPNPIIDGRKANVNLAYLGAKPWCLQTG FAIGVQQLHPTLIOQRTYGLTPNYMYPFAI VQATVPIAAPVPSLSSPYIEYTPASPAY AQYPATYDQYPVVAASPATVRSFVGYS YPAAPQALSAAAPAGTFLQYQAPHV QDRMH
2391	10442	A	3315	1	407	DAERQEALGIVRRIGTDEEAATEPAGAT VPAAAAARIGTVGQPQPPAMPRRKRNA GSSSDGTEEDSDPSTDLDEHTDSSESOGTSR RSARVTRSSARLSQSRRSIRSRCSKSGSLL ALRSLLTLPPEE*PVVSSSLPQ
2392	10443	B	3316	78	316	XSYLILQWPRDADGAAFTCCTNDKATQT PLSWQELEGERASSCAHKRSASWGSTD HREIKEISKLQQQLQRTKLSRSRSGKEKER*
2393	10444	A	3317	1	2319	GHPAFLEDGSPSPVLAFAAASPSPRNHSYIF KREPEGCEKVRVFEEAATTRGKYGEGAK QETITFALTLYFIQCVINAFAKILQFFD TARVDRTRSWLYAACISYLSGAMVSSNS ALOFVNYPQTQVLGKSKCP1P1VMLLGVTL LKKKYPLAKYLCVLLIVAGVALFMYKP KKVGYIEEHTVGYGELLLLSSLTDGLT GVSDQDHMRAHYQTGSNHNMLNINLWS TLLLGMAVSCPQDGPELVPRCPFVQALE KPS
2394	10445	A	3318	845	1343	LSLGDSAQCLLPHASWCQVAGHPAFL DGSPSPVLAFAAASPSPRNHSYIFKREPEG CEKVRVFEATS/RVLTGFPLTCPDKCN KVFHQPTQGSACFPVNLMKPLFPGMGIFP RNCPSPNGISSLSPGQPAATTSEGSQSLOG LPTAIRAMAVAPHQMSLCFSRAP
2395	10446	A	3319	44	498	
2396	10447	A	332	130	249	
2397	10448	A	3320	1	164	
2398	10449	A	3321	2	438	ARAARVFLHRSSNLNSGETESVKTMI HDDVESEPAATPSKEGTILVTRQTSASST LQKHKSSSSFTPFIDPRLQIPSSGTTVTS VVFQSCDGMRPEAIRQDPTRKGSVNV NPTNRPQSDPPEIRKSGKG*L*ILGAGLW
2399	10450	A	3322	3	174	
2400	10451	A	3323	2	4978	RRTSAVSRLLFFMSFVQPLLQQPPVHLLT ARVRVPGYLQIDGVKIKEHNGKLMNCF KTMKTYFSMFKCVGPAQLTIGFSGPSR ETGSDPRAARRGEDPQSKDRGDGLSEQT EAQRSGVHCPRSQQLVGELAGAQSPRTI ALRVCVLLCITSYNTSKDESSKDEEE IKLEINMLKKYSHHNRNATYYGAFIKKSP PGHDDQQLWLVMEEFCGAGSITDLVKNTK GNTLKEWDWIAYISKEILRGLLAHLHHHVI HR
2401	10452	A	3324	197	332	
2402	10453	A	3325	1	1788	
2403	10454	A	3326	3	111	
2404	10455	A	3327	220	423	HEELKSGPYLLTFRDCFLHFVALVSKR /LALNFM*TSAPT*KALSKRNICL VNKNR NIKIPYPKKKK
2405	10456	A	3328	273	499	RSGVRDQPQGHGKITSLLKIQKLARRGG ACL*SQLLRRRLRQENRLLNPGGGCSEPR SCHCTPAWETEQDISKIK
2406	10457	A	3329	1	1176	
2407	10458	A	333	1	3408	

2408	10459	A	3330	245	394	
2409	10460	A	3331	458	701	GPAPTRRGPAFHGAHTR**PAGTARAAC GSA*AGTASPAHKGKGHHFPGSASSTG PGPCQRRRRSDHSSAGKWPRLREASL
2410	10461	A	3332	365	814	AALRSENSRHSVLVKMSDKKADPV NKGSGQGPKRKNWSKGKSSGTSFNNL VLFDKATYDKLCKEVNPVNYNLITPAVGSE RLKIRKGSLGQKPFQELLSKGFIPNWFS KHIRASSYFTPGITKGGDAPSLLGEDCMN RSPNPVHLEK
2411	10462	A	3333	41	565	APSPRRPWGHFTEDKATIKNWLWGGE MWKDAGGKNPWERLPWLSPYMPGQFR FDQDNLANLSSLCPIMGNPPVKVGTWPR KVLTSLGSAAHKSTWDDLKGHHLPKPEV NLHCDKPMAMWDPEFKAPGEMLLVTR FGQSHFRQNKFTPGGCRASWGRKMGDL ELASALVPSRYH
2412	10463	A	3334	399	592	KCIIHFFGPITPKFVCGVIVVTAVP/TFGM* TVVV**LPFSILAQNVG*RDDCPGWKL NLJFYAKKK
2413	10464	A	3335	28	312	
2414	10465	A	3336	26	417	
2415	10466	A	3337	16	3567	
2416	10467	A	3338	6385	6599	
2417	10468	A	3339	2	758	
2418	10469	A	334	3	443	SFQGGLEGEAWAGTGAAPGACGPARVP GGRRLRGPTRPAGTGPQ*G/VLAPGP AAAVL/RFLTGP*LPSSRSRARDREGLQLH S*SQRDHEPTGRN/GTTPDAPP*EL*HSPR RSAASLCQAAPEVSPQGSQVPAISGNP QRLLPT
2419	10470	A	3340	116	627	
2420	10471	A	3341	1830	2259	
2421	10472	A	3342	1	619	
2422	10473	A	3343	1830	2258	
2423	10474	A	3344	290	1377	RSFRAIGEVGSIRGWGGGYAAQLQSPSR LPVLLGGKKGGSGRSGVQGQGSSRAEVGLG SQRERSGTGCAAAAAAAQIAJAGTGSSL PYQGPQGNQTAIAPTCAPLSPCKAAAIV MGNIFGNLLKSLIGKEMRILMVGLDAA GKTTILYKLKLGEIVTTIPTIGFVNVEY KNISFTVWCGVVARDKIURPLIWRHYFQ INTQGFDILWSDSNDRVERVNEAREELI MKNAGAETSLRDAVLLVFQQTNRICPN AMNAAGUQDKLGLLHSRHRNWYIQA CATRGNGLYEGHLHWLANSVPKQEVESR TAL/TKHSTSPLTYLLSPCPQFLPLSMQG LARAAGWIMSTLPSRTLPLPTSLPFSCPP1
2424	10475	A	3345	292	574	VTIENSQGQTQCGKQDRIQVPRHFARRG PPGSQY/VTIPVPPGPFLHATQLPPGPIL GKRKAQERRLDPRPRTTCQAAAPTRSSP FCPPQKVWR
2425	10476	A	3346	3	142	TISSIIRKARKP/QDQNLNNYTPRSSPLRSSG RTRMYKGKNVRFGNSS

2426	10477	A	3347	1	1418	MAAALFVLLGFALLGTHGASGAGEERA RKQPCGKSRQFHGSEGALATRFSAGNTG FVQAPLSQRWVGGSGSVELHCEAVGSPV PEIQWWFEGQGPNDTCSQLWDGARLDR VHIIHATVHQHAASITISIDTLVEEDTGYE CRASNPDNRNHLTRAPRVKWVRAQAV VLVLEPGTVFTVFTVEDLGSKILLTCSLND ATEVTGHRWLKGVVVLKEDALPGQKTE FKVFDSDDQWGEYSVCFPEPMGTANIQL HGPBKVKAVKSSEHINEGETAAMLVCKS ESPPVPTDWAHYKITDSEDKALMNGSE SRFPVSSSQGRSELHIEHNLMNEADPGQY RCNGTSSKGSDQAIITLVRSHLAALWPF LGIVAEVLVLTIIIFIYEKRKRPEDVLDAL RRCPTWPGLMSCPPEPLGVTEGRAGSTDA PARGLGSASADRSSLSPFLHGGPSSDD DAGSAPLKSSGQHONDKGKNRQRNNS
2427	10478	A	3348	3	896	SCRGRRRQRLEVVRGFRRGIGIMAAALF VLFQIALLGTHGASGAAGATVFTVFTVEDL GSKILLTCSLNDSADEVTVGHRWLKGVV VLEKEDALPGQKTEFKVFDSDDQWGEYS CVFLPEPMGTANIQLHGPBPRVKAVKISS EHINEGETAMLVCKSEFVPPVPTDWA YKITDSEDKALMNGSESRFPVNSSQQR SELHIEHNLMNEADPGQERCRNGTSSKG RPRPLQFLRVRSHLAALWPFGLGIVQEVL VLVLIIFIYEKRKRPEDVLDDDAGSAPL KSSGQHONDKGKNRQRNNS
2428	10479	A	3349	870	997	KWAANTSVISNEESMIS*LSGRQ*NLRV WRLRKTWWLNWTL
2429	10480	A	335	2	306	
2430	10481	A	3350	2	225	GILKGLYYPLATNSFPATCWRL*VSPAHS KDPRNAATVHLSFFPSGGPRYLLGHTT WQQGLGKGRRTEQHSL
2431	10482	A	3351	1	336	
2432	10483	A	3352	1193	2524	SKPPAASFAPRPPATTSRITLSAACFRSR CRLAACSFVRPLPHDTDNMNGQLNGFH EAFIEGTFLFTSESVEGHDPKICDQIS DAVLDAHLQDQDPAKVA CETVAKTGM LLAGEITSRAAVDYQKVVR EAVKHIGYD DSSKGFDYKTCNVLA VALEQSPDIAQGV HLDRN EEDIGAGDQGLMFGYATDTEEE CMLTIVLAHKLNAKLAELRRNGTL PWL RPDSKTQVTVQYMQDRGAVLPVIRVHTIV ISVQHDEEVCLDEM RDALKEKVIKA VVP AKYLDDVTIYHLOPSGRFVIGGPQGDAG LTGRKIIIVDTYGGWGAHGGGAFSGKDY TKVDRSAAYAARWVAKSLVKGGLCR VLVDRSYAIGVSHPLSISIFHYGTSRKSE RELLEIVKKNFDLRLPGVIVRDLIDLKKPIY QRTAAYGHGRDSFPWEVPKKLY
2433	10484	A	3353	346	461	

2434	10485	A	3354	3	1632	MTEQLEPILMQAFIKSTAGLEARKLKAYRTMMEYMAKSTDSPGHILCCECGVPISPNPANIEACLRSKREDISQGIPKQVSISFCCKQCQRYFQPPGTWIQCALESRGTFLLWCL EKNPKPLWSKVRLVDAFGFWVTEPHFKRLKVKTQIKEVMNGAILQQVFVVVDYV VQSQMCMDGHESEKLKDFWKAVIQVR QTLHKTFYYLEQILKYGHMHQNTLRIKEIIDGLDFYSSKQHAKMVEFLQCT VPCRYKASQRISQDHSNTNYKSTFSVEIPICKDNVCLSPKLAQSLGNMNCQIC VCRVTSIAHILIDPNTLQVADIDGSTFWSHPFNSLCHPKQLEFIVMECSIVQDJKRAAGAGMISKKHTLGEVWGTGEHLEMNY RIQYFCRTVHLGTSCLNPGRVFLGFDLAMCNLNDEHVNKNMNSDRVPDVVLIIKS YDRTKRRQRRRNWKLKELARERENMDT DDERQYQDFLEDLEEDEAIRKVNVIYRD SAIPVESDTDDEGAPRISLAEMLEDLHFS PGCPFLVKEGASMLT
2435	10486	A	3358	231	877	PKPGGYSQCRTTSSRATERNRIDYVSSA VPVYLTTPDPLPRPEVVFIFGRSNVKGSSL IKALFLSLAPEVEVRVSKKPGHTKKMNFV KVGKHFITVVDMPGYGFRAPEDFVDMVE TYLKERRNLKRTRFLLVDSVVGQIKTDNIAIEMCEEFAALPYVIVLTKIDKSSKGHLK QVLIHQKFVNMMKTQGCFPQLFPVSAVTF SGHLLRRCFIASVTGSLD
2436	10487	A	3359	3	234	
2437	10488	A	336	243	748	PCQSFOPSGFGKDRPTSLEQRSSQRERQA AIFAVSQPSLVIQPPGTGKSEVNADRSRPP AYCNSLGRYSGPGPPSLVIPPPTGKSEVN ADRSGPPAYCSNHFPSPALP**RSMRSLS LQQTSAWTCRHFTSFEIQ/RGGSQITL AFCAPAGPTGRGSHVGLAPSEALT
2438	10489	A	3360	25	546	QSGDLGGRLSRSENCQSQRVVRJRVGA VMAGVLKTTGVLGLAVCNTPHRLR ILYTKLDVLEEPKINAAYRKYTEQITN EKLMVKAEPDVVKULEDQQLQGGQLEEL VILQAIEHELNLAKKK*GEWKLWEPPLV EEPFAIDQWQKWNANIIKLTVLVFMGKLD VIKIFCYI
2439	10490	A	3361	2	367	YAGFSLSAQKCPGAMAE*SYAKSTKLVL KGTKTKSKKKSSKEKKRKREDEETQF DIVGTIAIEMDEGTYIHALDNGLFTLGLAP IHEKGKMLLAASNGCFRCNEAGDIEAK SKTAGEEEMIT
2440	10491	A	3362	268	393	DGRRKKEWHKVERRHPYLSSLSQH W*TVTNFGEISGTIAIEVDEGTYIHALLNN GLFTLGAPHK/ERIALKPGYGYKYLNSD ELVV/GRSDAIPREQWEPVFPQNQEVRN GGAEMGEEKRNGTWKREDETDHTSFPL FPSTGGQPKAHSNWRKVCVH
2441	10492	A	3363	6	223	TVTINFGEISGTIAIEMDEGTYIHALDNGL FTLGAPHK/ERIALKSGYGYKYLGINDEL VGHISDAIPREQWEH
2442	10493	A	3364	329	877	RPWFOQDRRAGDPWPRTHEFRSSEASLQ ASACKKKSSKEKKRKREDEETQDFMF GIW*TVTNFDIEISGTIAIEMDEGTYIHALDNGLFTLGSSTORRIALKSGYGYKYLGINSDLVVG/GRSDAIPREQWEPVONGACAA VFVTFVIGSEKQSECSLRLRESRACYHGCTH GQISSSLKQHPRWMY

2443	10494	A	3365	97	704	AGFSLSAQKCPGAMAE*SYAKSTKLVLK GTKTTSKKKKSEKKRKREEDEETQFDI VGIW*TVTNFDEISCTIAIEMDEGTYIHAL DDGLFTLGAPEKCAKMMALLASNGCFIR CNEAGDIEAKSKTAGEEEMIKRSACERE TKKKDDFLEEDKGNVKQCEINYVKKFQ SPEHKLKISKEDSKILKKAQKDGFLEHT LLDR
2444	10495	A	3366	24	981	AIQJRLGEDGGGYRDRVGCQGVFISRPLL FLRAPVPLRTYSSRTGLSLSAQKLPGA MAEYSYVKSSTKLVLKGTTKTSKKKKSK DKKRKREEDEETQLDIVGIWWTVTNFGE ISGTIAIEMDKGTYIHALDNGULFTLJAP HKEJSDEGPSPPEQTAIVKLSDSRIALJKS GYGKYLGIIRDGLVVGARSDAVGPREQW EPVFKMKGKMASTNSCFIRJHEAEDIE AKSKTAGEEEMIKRSACERETKKDDIP EEDKGVNKCEINYVKKFQSFQDHKLKI SKEDSKILKARKDGFLEHTLDRRAK LEADRYCK
2445	10496	A	3367	1	555	PLKRSIDGCNDGRPRTPRPTDFTVFTSNL KQTRMVLHTLPEEKSAVTALWKGKVNVD EVGGKALGRLLVVYWPWITQRFFESFGD LSTPDAV/VMGNPKVKVAHGGKVLGIAFS GGPGCTWDNLKGTAHTEVSLHCDKLH RGSLSKRNRLGUNVLGLCCLAHSLLGKEP OPLHQACLKKIGWGLVG
2446	10497	A	3368	1	390	WEI/QELNEVARHRRPSTLVMGIQOENR QIRELQENKELRSTSLEEHQS ALELIMSK YREOMFRLLMAKKDDPGIIMKLKEQHQS KELOAHVDQITEMAAMRKVPLKLTSNS VARNKNEYFNLNKTKA
2447	10498	A	3369	769	912	FPTPIPLFQELQAHVHDQITEMAAVMRKV PLKLTNSRVARVNKNEYFNLNK
2448	10499	A	337	514	967	APACCPAAVSPFLCEPTLJHPPHPPDLKE DTGQKHRGAQSHPTLAGAGLAGRSKSQL PSPSAISIWHSIDGTSSCDRQQCDRDLPS ALLSPHLRCSCQPATRQLESS*TPPGTADL FLASSGPNPRAFSNARSVRKCKATSEKS KPKSYOQS
2449	10500	A	3370	1	463	MKKNIAFIALLASMVFVSIATNAYADIQMT QSPSSLLASVQGDRTVITCRSSQSLLVHIG NTLYLHWYQQKPKGKAPKLIIYKVSNRFS GVPSSFGSGSGGTDFTLTISGLQPEDFAT YYCQHYDSLPHYTFGQGQTKLEIKRTVAA PSVFIFFAHLMLSS
2450	10501	A	3371	2	166	
2451	10502	A	3372	39	1200	FCGVAAAMQLEIQLVALNFIISYLYNKLPPR RVNIPGEELERLLKKKYIEGHWYPEKPY KGSGFRCIHIGEKVDPVIEQASKEGLDI DDVRGNLPQDLESFRIDPFEVSYQIGEK GPVKVLYVDDNNENGCFLDKEIKNSFN PEAQVFMPISDPASSVSSSPPPFGHSAA VSPTFMPRSTQPLTFTTATFVAATKPGST KMKNSG/RGSSRARTSPINLRLGMWN DILGRKAISSSMHSILYGLGLGSQQQ QQQQQPAQPPPPPPQQQQQQQKVTALS PNAKEFIFPNM0GQGQSTINGMFP/GDSP LNLSPLQYSNAFDVFAITYGGLNEKSFV DGLNFSLNNMQYSNQQFCYGLTKKK KMYRTKLKCTGPRIFFSPP
2452	10503	A	3373	1	1197	
2453	10504	A	3374	66	632	RRDPRTPANMALRVRSVRALLCTLRA VPLPAVAPCPPRPWQLGVGAVRTLRTGP ALLSVRKFTKEQESGNNQKEKSMNQLGS GNFAQEALGDVVYVYCSPEVGTKLNKQ DEFGALESVKAASELYSPLSGEVTEINNE ALAAENPGTCKTNFCYAEKGWLKMTLSN PSEIUDLMSEEAYEKYKISIEE

2454	10505	A	3375	162	552	VASEHSPKIGASQQLDYEPLLVVAKVWY LTRPTGKAGSVFSQYLPFLPGLGPAS LSPWLQRTLTKGEIEIDIEPTDKVERIKER VEEKEGIPPPQQQRHLQVAKQMNDEK TASWITKLRLWVQSFOT
2455	10506	A	3376	77	427	GRDKGEYPPAPSSGGWKGSGVIMLTEL EALNSIIDVYHKYSLIKGNFHAVYRDDL KKLLETECPQYIRKKGADVWPKEDINT DGAVNPFQEFILVIKMGWQPTKKAMKK ATKS
2456	10507	A	3377	1	143	
2457	10508	A	3378	200	899	GKSTGPVCVHMSLCEWTLSLATRVSLLS HPSHQSHSHLLVWLFGESPRGQGLRLGH ESSAYCPGQMOQIPCHIGPOKVLFWRWGK SVGIMLETEKALNSIIDVYHKYSLIKGN PHAVYRDDLKKLLETTECPQYIRVRRGLG WRGLSAWSWGCPGPAVLPATLHRWLCL GSL-DL*TLASSSSILTKKGADVWPKEDINT DINTDGAVNPFQEFILVIKMGWQPTKKAMKK ATKS
2458	10509	A	3379	99	497	RESGGKRLNIYHOTVYHVKYSLIKGNFH AVYRUDLKKLLETTECPQYIRKKGADV WFKELDINTDGAVNPFQEFILVIKMGW QPTKKAMKESHKGVLSLLGPKGWAL GGHVFICRKVINTSSKKKKKKVDA
2459	10510	B	338	1	456	MKLRLTAVSATALKVARLEFPFDVRM CSEPLSSGVKLQTFAVSVTALNARLLELP VPPGGLMVSLASGVKLQJQFTVSVTAHK SVDPKTLGWSMGLGAVEQGAALIGEAW AAQEPMEGVGGSGMAGCRSRALPRGKA AKARREIERSAGH*
2460	10511	A	3380	1	282	PLKRSDCGNDGRPTRPTPRPDTTVTSNL KQTMRVHLATPEEKSAVTALWKGVNVD EVGGKALGURLLWVPLGLPPKGPLKSGF GICCPNSLAG
2461	10512	A	3381	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLWVYPTQRFFDPSGNLSSASAAMGN PKVKAHGGKVLTSGLDAIKHLDLKGTF AQSELHCKDLHVDPENFKLLGNVLT LAHFGEKFTPEVQASWQKMVTGVASA LSSRYH
2462	10513	A	3382	3	549	FCPRQQEFGEGNKLVPDAMGHFTED KATITSLWGKVNVEDAGGETLGRL VYVPPWTRQFFDPSGNLSSASAAMGNP KVKIAHGGKVLTFLGRQCOQSTLDDLGK LLPKPEVNCVTDKPMAMWDPENFKAPGE MLVYTRFGQSHFRQKNSPPGGKASWA ERWVTGVAASALVPSYH
2463	10514	A	3383	347	716	REPCVSRSSCTCPLPWEPRAMCPVGA MRGSRRDPASSSLSPDHLAQLQPGAGFL FCAPAISGSFPRSPSPQGHLATAGSWL/ CPVVAQOPQAPALCCPGRGVAVVGIAW EDSGKSVGEVAS
2464	10515	A	3384	1	1362	
2465	10516	A	3385	284	540	KLFQKKNNKSSCISDNFFLLAIVMVLQ IVRDHWVHVRLVPMGFVIGCYLDRKSD ERLTAFRNKSMFLKFSPFHRELQPSSEVT WK
2466	10517	A	3386	194	353	
2467	10518	A	3387	57	880	DPHSVSSTGGPLPIWFPLSSPGAVAA DPAPOQGSQPTVDAVGWPVPHIRARDSARLP LCPWHASALELGIATPTGVTTQAGPSY AWRSRCLLYPQSPVLLASLGVLVTLLG LAVGSYLVRSSRSPQVTLLDPSKEYLLR LDDKTWSWGRKGQGEGGGDQSAPGM*GT APTVGMSKGGRGSARRAW*NTCVLHPP TVSHNTKRFRALPTAIIHTLGLPVGKES VEWAPPFGYVPKVITPLLGSHETRCFNRF APHTISPSPTWLCLLQAVRCHWA

2468	10519	A	3388	430	483	NPQCLTLPTRKSECTDTVISWLSFGFLF TRWVTGMAVLLRLSLRQAEYTHSOLL PLDT*RLGNVVKFRGPGSGLLSVTGKCHF NQPNKKSPPPEPRVAKKLGMIAGGTGTIP MLQIRAILKVPEPDPTQCFLLFATQTEKD IILREDLEELQARYPNRFRKLWFTLDHPPK GILPISGHPTIPSSSKSPCPFVNNSFIEINL ASHCQLGSLSAQTO
2469	10520	A	3389	3	1007	HACAHASAHASGRLVRWGRKRRSVMMG QTPSPVLLASLGVGLVTLGLAAGSVLVR RSRPPQVTLLDPNEKYLRLRNKTTVSH NTKFRFRALPTAHTLGLPGVKHILST RIDGVRNPKPTVPTSDEDQGYVDLVIK VYLGKVQPKFSEGIGKMSQYLDLSKVG DVWVEFRGSPSLLTYTGKGHFNIOPNKK SPPEPRVAKKLGMIAGGTGTIPMLQIR AIIKVPEDPTQCFLLFANQTEKDUIFAGG LKRNLOQARYPNRFRKLWFTLDHPPKDWA YSKGFVTADMIREHLPAPGDDVLVLLCG PPPMVQLACHPNLQGTQVTSQKMAISP Y
2470	10521	A	339	1	1519	KAQDRLLDGFQNAADDMDNEIQAEM VSIDGDEELVGNWSKEPTTLGAATMGLG TEKQLGMGWAGRKGPFIDLEPLPQAC KLHVAHTTWEAEVQCGSLSRPRNSNL LEOGVLEETRNLLEQHGGEIDLEKRWL GTVAHTCNASTLQGRGVKLQTOFTVSITA PKAAARLELFVPPGGLVVLLASGVKLOJF AVSVTAHKSSVDPKTLGWSMGLGAVEQ EVVLVGEAPAAQEPMEWVGGSGMGA GPOALPRGKAAKAREIEHSAGLYKLIP HSEYSRPNRVPFNSQGSNPVRVSFVNLN DQSGNDRLCFLNVGRELYFYIYKGVRK TIPGICRTEILSVLTEADLSKPIDKRY KGTTQPTCHDFNHLTATAESVSLVGFSA GQVQLDPIKKETSKLFNEEAFEGRYATF FTI/WYECSSHGLHISALGLVFFGDISY SLSSQAPLEGASRDSGSRGHELWSESSR KRNNKKR
2471	10522	A	3390	2568	2781	RSPGRPPHDPPNAPV/RRPASCHS/AAESQ HGWGKKSKISASRKLQLKTLQIAKQE/ LEREAEERRGEKGRALSTRCOPLELA
2472	10523	A	3391	2	409	
2473	10524	A	3392	3	490	SSPEETVGPWDPEGHPGGGPLTDPPNAPV LALPPAIPGLSLIMADGSSDAVRAAG*GV AGTPRARAREPRPAPAPIRRRSNSYRAY ATEPHAKKKSKISASRKLQLKTLQI QELEREAEERRGEKGRALSTRCOPLELA GLGFAELODLCRQLHARVDK
2474	10525	A	3393	2023	2613	
2475	10526	A	3394	150	848	VSAWRNGSSDAAREPRPAPAPIRRSSN YRAYATEPHAKKKSKISASRKLQLKTL LQIAKQELEEREAEERRGREGARSLAPRC QOPLELAGLGFADLPLGCCROFHARVVD KVDEERYDIEAKVSKNITEIANLTVQKIF DLRSKFKRPTLARRVRISADAMMQLLG ARAKESDLRAHLKQVKKEDPEKENRE VGDWRKNIDALSGMERMKKWRELSP AYCPCPEEGH
2476	10527	A	3395	1	2880	

2477	10528	B	3396	61	5070	MGPTSGPSLLLLLTLHPLALGSPMYSUIT PNMLRLESEETMVLEAHDAQGDVPVTVT VHDFFPGKLVLSEKTVLTPATNMGN VIFTIPANREFKSEKGRNKFTVQATFTG TOVKEKVVVLVLSQSGYLIQTDKTYITPG STVLYRIFTVNHLLPVGRTVMVNIENPE GIPVKQDSLSSQNLGVPLPSWDIPELVN MCQWKIRAYENSPQVSTFEVKEY VLPSEFIVEPTEKFYYIYNEKGLEVTI
2478	10529	A	3397	3	560	EGKGGQGTLSSVVTMYYHAKDQLTCNKF DLCPLPSRKVEVFLGPCLQPGTFLWWR NRRVVLGFFSMNGEDMGLFLCSEWERSS EGWLNCNREGGSHSIEPHCCFLHLTHR SLAFSLLAGVSCTCASSCKCECKCTC KSECGAJSRNGLWLVKGREPKAVPVEV RASGEPAFLCPCLPSLV
2479	10530	A	3398	3	1584	SNQPLRREAFPFPKGKLRQGIPGEPENGD RSHFFSFDTAVMILYKEQSALTGNLPG PQLPRLRAAGRGHGPSVPAPSRRGALS RFPASGRSAVPTIGWLCKRSHYHSIRGAN GWRDQELVRASHTMSATAQTNRAEK AGRELSQANNDRTRGLRAHPAPPPSQRARQ VPRLEHLASPRCRWPAVISRPFRSWHCIL EIRFRKGKLGGRASPENEGAGEIIRVKVP KDRDWLTAKLQGDLLTVSQTAKLEDMV LQTAKSTQDFLPTARSYSPITKLKGKV NTKSPTLLPTAAGRHYLLGAPIASWRC HTSTIRYHTVVVMSMTLITEHOAGSVD MSANDYAHYSGASGDNEMCVIACTP FLFLSPRAWKPCDAGSKVKNWGIENGNL VHTVLSSTQHGDPEVHAPFGMEAAYA HPLETILIGTGFFIGIVLLCDHVILLWAW VTIRLLETIDVHSYGDIPLNPLNLIPYAG SRHHDFHHMNFIGNYGFQHFTRWDW NFLGTDQSINYNEKRKKFEEKTE
2480	10531	A	3399	2	873	GRVGEMSMQRGKYDFYIGLGLAMSSSIF IGGSFILKKGLLRLARKGSMRAGOGGHH AYLKEWLWRAGLSSMGAGEVANFAAY AVAPATLVTPLGALSVLVRAILSSYFLNE RLNLHKGKIGCLLSILGSUVMVHIAPEKEEEI ETLNEMSHKLGDGPFGVVFATLVIVVIAL IFVVGPRHGTNLIYVYITICSVIGAFSVSC VKGLGIAKEFLAGKPVLIQIPWAWILLSS LIVCVSTQINYLNRWPWDIFNTSIVTIY VFTTSVLTCSAIFKGVGKDMPVGRC LVL
2481	10532	A	34	2583	3580	DRVSSLPLRLECNAILAHCNLCLSGSSD SPASASQVTGIGKCHHTQIIFVFLVEMG FHIAQAGLELLTSVSDPTLASQAGITGV NIHAWLFFCS/RDTVSLCYPGWSRVA* SRTATSA\PGLK*FACFSLPSSRDYRHP PHPGNCFGRDEVSPCWPGWF*TPDLR YPPFASASQSAEIJGVSHHTWPQEVFLN LFMLRWSLDSVAQARVQRRDLCGSLOA PPPRFKPFSCSLSPSSWDYRPPPHPANFF VFLVETGFVTLARRVLS*PRDLPASASQ SAGITGVSHHTR/LIF/NFFETGTHSVTVWA AVQWYT/USLQPRTEPELK*SSHLLITSN WDYRCTPCPPLNLFYLFYFHRDEGSLC CPGWS*TEPLK
2482	10533	A	340	759	1034	
2483	10534	A	3400	90	458	HFSRGYLEAFSEISNIREVPPHSVTVVV FGACFLCILGHPWVACLPGPGECEGSGOF GEGRSEAGRLGSVETP\ATLPLQAPEA YPVFEPVPPVPEAAQGDTEDSEGAPPLK RCPNAPDP

2484	10535A	3401	3	787	PGSTISWRPGLARSLSPPDGRRPRRGGLGP GPSPASMAGRTRVRAETRSRAKDDIKK MATIEKVRWEKTRWTVAAATPFRNLW VAIVVDPQEEERURRAGGAERSRGRER RGRGASP DGGG/PLFLLDLINDENSNQR FPLRKGSLSQRGTEVSPGTPKPNRPCVT LPPDPPEGGPCTRAQPTT/RLGQEERSPGGI TVNGSTDEPPMLTKEEPVPPELLEAEEAPEA VYPFEPVPPVPEAAQGDTEDFGSAPPULK RCPNAPDP
2485	10536A	3402	1	172	
2486	10537B	3403	1	5501	MVSKLSQLQTELLAALLESGLSKEALIQ ALGEPPYLLAGEGPPLDKGESC GGGRGE LAELPNGLGETRSSEDETDDDGEDFTTPI LKELENLSPEEEAAHQKAVVETLLQEDPW RVAKMVKS YLQOHINIPQREVVDTTJGLN QSHLSQHNLKGTPMKTQKRAALYTWWV RKQREVAQQFTHAQOGGLIEEPTGDELP TKKGRNRKFKWPGPASQQLFQAYEROK NPSKEEREAOQGLGSNLVTEVRVYNNWFA NRKKEEAFRHKLAMDTYSGGPPGPGP ALPAHSSPGLP PPLSPSKVHGVRYQGP ATSETAEVPSSSGGPLVTVSTPLHQS P GLEPSHSLLSTEAKL VSAAGGPLPPVSTL TALHSLEQTSPGLNQOPQNLIMASLPGV MTIGPGEPAASLGPFTNTGASTLVIGLAS TQAQSVPVINSMGSSLTTLQPVQFSQPLH PSYQQPLMPPVQSHVTONP FMATMAQ QSPHALYSHKPEVAQYTHTGLLPQTM TDTTNLSALASLTPKQVFTSDTEAS GLHTPASQATTLHVPQS QDPAGI QHLQPA HRLSAPTVSSSSLVLYQSSDSSNGQSHL LPSNHSVIETFISTQMASSSS*
2487	10538A	3404	158	755	RGGRPAWPCGSRAMVSKLSQLQTELLA ALLESGLSKEALIQALGEPPYLLAGEGP LDKGESC GGGRGE LAELPNGLGETRSSE DETDDDGEDFTTPI LKELENLSPEEEAAHQ KAVVETLLQEDPW RVAKMVKS YLQOH NIPQREVVDTTJGLNQSHLSQH/HQQGHS HEDAEAGR PVHILVRPQAA RGGA AVHPC RGRAD
2488	10539B	3405	133	2369	MVSKLSQLQTELLAALLESGLSKEALIQ ALGEPPYLLAGEGPPLDKGESC GGGRGE LAELPNGLGETRSSEDETDDDGEDFTTPI LKELENLSPEEEAAHQKAVVETLLQEDPW RVAKMVKS YLQOHINIPQREVVDTTJGLN QSHLSQHNLKGTPMKTQKRAALYTWWV RKQREVAQQFTHAQOGGLIEEPTGDELP TKKGRNRKFKWPGPASQQLFQAYEROK NPSKEEREFLV EECNRAECIQRGVSPSQ QGLGSNLVTEVRVYNNWFA NRKKEEAFR HKLAMDTK VHGVR YQOPATSETAEVPS SSCGPLVTVSTPLHQS PFTGLEPSSHLS TEAKL VSAAGGPLPPVSTL TALHSLEQT PGLNQOPQNLIMASLPGVMTIGPGE P LGPFTNTGASTL VVPTL DQSLCYISDT WVNQTDQNLNSNSR EAGTKHNTSILWY LRRPLGHAGTECA GHQHQHGQPDHLQ VQFSQPLHPSYQ QPLMPPVQSHV TQSPF MATMAQLOSPH*

2489	10540	A	3406	1	2112	MMLKGKAHCISLDFGFLDLQCSNTNSAAE FIRSWEDPRWRVAKMVKSYLNQHNPQR EVVDTTGLNQSHLSQHNLNGTPMKSQK RALAYTWWYVRKOREVAQPHIPYPIPENS TGTETWLIELTWLDPHTAKNDQEHRRTDSP VNYGKKGKGENKNLKPPEVYVSLIKA CGPGNFCPSFSELQRNFVKHPRTKLKS LRLVKHWYQQWLQPHREWKEEVLDA VRTVEEFLRQEHHQGKRGQLDQDVRLK VVKGVSFGNGTVRRLSTREVELVAFSLCF HSFQEAAKHHKDVLRLIWKTMWQSQD LLDLGLEDLRMEQRVPDALVFTIOTRGT AEUTVTVPAYRALGPSPNSQPPPEVY VSLIKACCGPGNFCPSFSELQRNFVKHPR TKLSSLRLVKHWYQQVVKARSPRANL PPLYALELLTIWAEWGMTEEDENFMLDE GFTTVMDDLLLEYEVICIVYTWTYYTLHNA IEDCVRKQLKKEPILDPADPTLNVAEG YRWDIVQGRASOCLKQDCCYDNRENPI SWNVKRARDIHLTEQRGYQPDNLNIVN PEPIRKVKEKIRRTGRYSGLQLRSFQVP GSERQLLSSRCSLAKYQIPSHTHYYLLET IPSEMQVFVKNPDDGSAYAYAIPNPSFIL GLKQVQIEDHQGLPKKQQQLEFQGGQLV QGLVGVWGFYGIQDMSDTLILSKKGE ALFPAS
2490	10541	A	3407	108	442	ALLSWEMSAACWEEPWGLPGFAKRV VTGGAGPUR*WRR*PSSGSPETPTFSRSS ACPSASHMIVSLSVEDYPNYMINLNDKLD YCASLNLETISNKQNYKFIQGDIICDS-
2491	10542	A	3408	115	1196	ALLSWEMSAACWEEPWGLPGFAKRV LVTGGAGFVISASHMIVSLSVEDYPNYMI NLNDKLD YCASLNLETISNKQNYKFIQG DICDSHFVKLILFETEKIDIVLHFAAQOTH DLSPRTCPWSFTHVNV/VMGTHVLVSA HEARVEKFIVYVSTDEVYGGSLDKEFDES SPKQPTNPYASSKAAAE/CFVQSYWEOY KFPVITRSSLVYGPHQYPEKVIPKFISLL QHNRKCCIHGSGLQTRNFLY/ATDVVEAF LTVLKKKGPEIYNINGTNFEMSVQLAK ELJQLIKEINTSESEMENTWVD YVNNDRPTN DMRYPMKESEKIHGLRWBPKVWPKEGIK KTIIEWYRENFHWNKVNKEALEPFPV
2492	10543	A	3409	359	532	IVMCHCLESIGEPCHEICGGSVCVCVYA AVCVLCVCVHTCICFGACV/CVCVCRV CPVCLCTYLLYLLWGLCVVCYQRVNFWK
2493	10544	A	341	587	1097	QKJINKVVPTGRQCCFVRLSPFESLKFQS KEIRNTSHRANVTKRNSANKTDA TPGPPPAOPHGA/PGGYAPRLQPHAPG FPKCGNAPRWPWYGPFGSPILLRKEQKRN PRKGTT*MQQVSPVPPFPPT*NAQPLPGGS LGPPISGHFHFLVSHTWPPPFRSPTAPP
2494	10545	A	3410	27	1389	GQPRSSQQGAGSWGKRRQESYRAREGDG GGSGLTGLLRTAAGWLLPARASPRERAT RJIPVRSRQRARRSLQRGPERPRRDPPQ TAWAARMCTKMEQPFYHDDSYTAITGY GRAPGGLSLHDYKLKPSLAVNLADPYR SLKA/PGARGPGP/EGGGGGSYFSCQGSD TGPSKLASSERLRLVPNSTANITTTPT PPQGYFYPRGGGSGGGAGGA/WGGVTE EQGFADGFGVKALDDLHMNHN/HTPPPNV SLGATGGPBGP/GRSASAPPEPPVYTIN LSSYSPASASSSSGAGAAVG/TGSSY/PTT SYLHAPPFAGGHPAQLGLGRGASTFK EPQTVPEARSRS/ATPPVSPINMERPRAPS KLEPSGLRNRLAGHQSGAKRKILKRFAR LEDKVKTLLKA/ENAGPVEVPPOLPGSR LAQAQTRKVIDPRVSNGLSSLLFGVIRGH AFLNVPCL

2495	10546	A	3411	1	3589	IRPLLDQRGGIPLRKPKPLEDLVCKLADISI NYVNERKSEQHLRFRLSTLDSFSSSRVFK MILLGDEKQSIVQAPKPLEIAKLVQKNPNAV QFLVQKLIGWLNEQDQRKDFGFLVDILYS ALRCCDNMDMERKKVLDDLTKVDLKWN SLKJIIKEKACPSSDKHALVTPWLKGDLG EKLVNLADCLCNEQDLESRVSESHFSER WTLLSLVLSQHVKNNDYLJGDVYVERIN RLHETLPKTKLSEAEASSDSSVSPICDV
2496	10547	A	3412	112	828	PVFCTPLPSHRRAAAALDLGASSNSDP HADSGTGNWAEVDPGSAQHLPRSSQLP HFLSSGGGPQCCRGRQRGEELLPSGGTA TPCAPRGLGWGLRSCALRAAAAPPTAQP TLRRAAPRPARPRAFGPGLAPQPSISRDFL GQAAASCITMLRWLRDFVLPFTAACQDA EQPTTRYETLFQALDRNGDGVDIGELQE GLRNGLPILQGDAEAEVGRRRGAA*A*GG LRLALGTLRGPRAAA
2497	10548	A	3413	1	1413	RDARRYSGTTPHPSISRDLLGQAVCASG TMLRWLRDFVLPATAACQDAEQPTTRYET LFQALDRNGDGVDIGELQEGLKNLNLGIP LGQDAEEKKIFTTGDVNVKNDGKLDLFEPPMK HLKDHEKKMKLAFKSLDKNNNDKJIEAS EIVQPLQTLGLTISEQQAELILQSIDVDGT MTVDWNEWRDYFLFNPVTDIEEIRFWK HSTGIDIGDSLTPDEFTEDDEKSGQWWWR QLLAGGIAGAVSRKSTAPLDRLKIMMMQV HGKSSDKMNFQGFRQMVKEGIRSLW RGNQTNVIKIAPETAVKFWAYEQVMKT RLAVGKTGQYSGIYDCAKKILKHEGLGA FYKGVVPNLLGHIPIYAGIDLAYELLOWKSY WLDNFAKDSVNPGVVMVLLGCGALSTC GQIASYPLALVRTRMQAQAIMLEGSPQL NMVGLFRRIISKEGIPGLYRGITPNFMKG LPAVISYVVYENMKQTLGVTQK
2498	10549	A	3414	1	222	
2499	10550	A	3415	2	528	SRVDPVRVHSARLTMCHSRISCHPTMTIL QAPTPAPSTIIPGRGRSGVPEIPTFDLPEP AAPDAGRPSASRGRHRKRSRRVLYPRVV RROLPVVEEPNPAVAKRLLFLALATIVFCQIL MAEEGVPALEPPEADPINAASLIAPTPVVS PVLEPFNLTSPEIUDYASWNLSTFLQHQP AAF
2500	10551	A	3416	1623	2346	TFPSGAKPPLAASHIHHRLRDASRLWRG RSGPSVTRRPTFLPSYPAPAHAPASAP GPSVSDCSPPFSRRRSPTRTDCFVCRPVC PPFIVPPGRAPSRMAEVLLLLLSSLPSA AAKJQGYPSCPGPQLSLRDLSSGDGWVA GLSGHHRVCGGPVGQEPQITVVHNATD GKIHRYHHRLIHLPTADYDDDFVNPAIRSARS AFCLTPGMQQMFNDLQNLKRSKQTK LWQRVSELEMAFTSP
2501	10552	A	3417	256	657	KGLSLSKKAGENHYFLPHSFPEKAPP AIGHLSRPGTIEEALDLFSARIVAEFIVLP ASHIHPRLRDAASRLWGRGRSGGPSVTRRP TFLPSYPPAPAHAPASAPGPSVSDCSPP SRRSRPTLARMRGLLGF
2502	10553	A	3418	294	573	SHLGLHEPSRHNRASPGLFCFTHRRGIH SASKSPSPSTS*CKSPRSPSGAAPRG* E*AGLGFSTGFRGFPNRARRPRLGVAI AHQAP
2503	10554	A	3419	1	931	

2504	10555	A	342	462	1238	SFVETKKLLISGSETLDSKDQYRINKYNH YFQTLHYTHILKEFSSGLSSATQ*KLSWSK GNG*GERPVSPPLLMAPSQQLAIHWVS EVKSVCSCFLSCQQGHVLTSPGSSFPQCQ PAQCYLPSCSEKTYNTG W/PGPIPSSLGIQ SS/SSPGS*SGPISSSKYSGDAQVCFSSPNL FPSFRPVTGCIQSPPNISFGAEGKGGLQPI PVHSLFLPTSTFSPVSP*P'RSHRSTHPETHS MSHSSQSSPQAPSALPPSISLPLSP
2505	10556	A	3420	640	757	
2506	10557	A	3421	865	1314	TPLPPSITTPKQPQNPNRGPGSAESELETEREE EEEKGSERPPPGRRSRISLRPPMIRWRRGD P!GQ!QETGPPKLRWHDGAEAGVAGH AAAFKH/ITEGPRLVPLGGIVVRLTSPATL !LRTGAGLHYERLWLNLNVPCLHPVRQ DHTLGLGSWG
2507	10558	A	3422	2	310	ARDVHPLPLPFLSGLNNSALGMQMRPQL LLSRCCRCLPATCASSCKCECKCTTS/TAR KKSCCSLNPCGLVPKCAPRACICKRGHRS SASLRLRMLMTGALLPYK
2508	10559	A	3423	41	317	LLKKFFFETGSHSFIQFGVQWQCDHDSL LPGSGDPSS/AS/RVAGTAGMHDHTWLF WFLVRRWSLTVLLRLVFNSWAKVILHL GLPKGWGLQV
2509	10560	A	3429	781	949	LICLGLAYRRHFEMSLWLGMVAHVCNP SAWGRGQQIT/R/GQEFTSLVNVMKT CLY
2510	10561	A	343	2	384	
2511	10562	A	3430	3	1029	RAFRFDDTMAGGGCRAGPGATCSDGDA GSDQRQNEEIAAMAIIYGEEWCVIDDC KICFICRISDDIDDPFTWLCLHVMLPNEY CTAPPYQLNAPWLKGQERADLSNSLLEE YQONIAESILYLWVEKURDVLIQKSQMT PGPDVKKKTEEDVECEDDLILACOPESS LKALDFEVSEARTEVEEELPPDHGIPIT DRRSTFQAHALPVCVKQVKMGLSKLY ENKKIASATHNIYAYRIYCEDKQZFLQD CEDDGETVAGGRLLHMEILSVKDVMG VRARWYVGMLGQDRFKHINNCVVRNIL VKNYTTSLLEESSKALGKNNKVRDKKK RNHH
2512	10563	C	3431	153	224	MVAHACNPSTLGDRGGRFTRSGD*
2513	10564	C	3432	20	58	MTQLTRKRKETIL*
2514	10565	A	3433	837	1125	LDVITSKNOFVLRTWLKIPGNCYRRHFF FFETESCSVQAQGVQWHNLSSLQAPPFG SRHSPTSASQAAGTYRYPAAHWPNFV FVFLVETGFHPC
2515	10566	A	3438	56	290	
2516	10567	A	3439	468	993	VLLACFWPGSDFWPRSRRKTYGTAPOSC YSFYVALDCGGVSRLVIFVSWRNQVAP TSAHQNPRSPRNFSRPPNTQRVARRKHY ALADGYTERRWNTNAPCRAESSPPNCP AAPIPDSYDK*PSRATLFTSHTLVEAIPV WSVLYPGETPRLHPRAHTRTVPAIYR DROTNGLRAANTMHSQMDTLDLNGD THLAGQRARSPTARPQRQYRHTTSDL PGLVRYKASGCCRILWYCCAWIERKALSL QVGGGVFGDPLSEGQAECDHGST
2517	10568	A	344	2	624	DSRSRACKMILLISVALLASSAONLNE DVSQEESPSLIAGNPGQPSPOQGNKPKQGP PPPGPKQPGPPPQOGNPKPQGPQPPGKPG PPQGDKSRSRSPSPGKPKQGQPPPQGG*Q GPPRGQIKPKQGPQPPPQGPQGPQAGGSK SOSARAPPGKPKQGPQGPQGNNPQGPPP AGGNPQQPQAPPAGQGPQGPQPRPQGGRP SRPPQ
2518	10569	A	3440	1	3114	

2519	10570	A	3441	3	401	TSSLSLSGKSGRYIVFLRRSGIQLQSPSABA TVRLLLAGSDRRAFGSAGCAVLSRAER S*EPGCCYRIRRSARLRAAGSINGRDKPV AWPDTGSDINTEVYFRAHQAGILPDTVL AGPAQRVAVSGGTPVDW
2520	10571	A	3442	2874	3062	
2521	10572	A	3443	2766	3323	MPDLVEGREKSDKGQAQPQPRTQSRSART NGSGVRILHSLWRIGIPLLLGYSLVCSCRV LLACFWPGSDFWPRSRKTYGTAPQSCY SFVYALDCGGVSRSLVIFVSWRNPQVAPT SAHNRPSRNPVSRPPNTQRVARRKHYA LADGYTERRWTDAPCRAESSFPNPCL* RQYRIHVTDASVCGP
2522	10573	A	3444	968	1440	
2523	10574	A	3445	3	640	LSVYRSRIIIMGVGVGVGCPV/RYRNQDD HELIITHGNKILCGIVCDKGQAQPQPRTQS RSARTNGSGVRILHSLWRIGIPLLLGYSL VCSCRVLLACFWPGSDFWPRSRKTYGT VPQSCYSYYALDCGGVSRSLVIFVSWR PQVAPTSAHQNRPQRNPVSRPPNTQRVA RRKHYAPVADGYTERRWTDAPCRAESSFP PNCPSPAAPIPDSYDK
2524	10575	A	3446	1	3140	WVVKMRYRSQHPSIKEKQMKSEVLSV KEKIGYGMGDAASIIIFNDNVMLYMMFF YTDIFGIPAGFVGTMFLVARALDAISDPC MGLLADRTRSRWGKFRPWVFLFGALPFG IVCVLAYSTPDLSMNGKMMIYAAITYTLLT LLYTVNIPVYCALGGVITNDPTQRISLQS WRFLVLTAGGLMLSTVLMMLPVNLIGGD NKPFLGFOGDLSPMFSTPEEJARPGVYEND VHVVGASSLAAGHKTJPELVRSAEQHM GTR
2525	10576	A	3447	750	1340	ILHAPAPPFSASASHEQPEWSDKGQAQPQ RTQSRARTNGSGVRILHSLWRIGIPLLL GYSLVCSCRVLLACFWPGSDFWPRSRKTY YGTAPQSCYSFYVALDCGGVSRSLVIFV WRNPQVAPTSAHQNRPQRNPVSRPPNTQ RVARRKHYALADGYTERRWTDAPCRAE SSFPNPCPFAAPIPDSYDK*PFRIVS
2526	10577	A	3448	93	699	RASVOQKLLSTDIDKGAPQPRTQSRSART RTNGSGVRILHSLWRIGIPLLLGYSLVCSC RVLLACFWPGSDFWPRSRKTYGTAPQSCYS CYSFYVALDCGGVSRSLVIFVGETPRV APTSAHQNRPQRPGTRPPNTQRVAR KHYALADGYTERSATNAPCRAESSFP LPVVPQVNTGIFIRQVTFRDCFVNTPQAA ASGFW
2527	10578	A	3449	1000	1530	QRYSDNPPNDKGQAQPQPRTQSRSARTNG SGVRILHSLWRIGIPLLLGYSLVCSCRV LLACFWPGSDFWPRSRKTYGTAPQSCYSF YVALDCGGVSRSLVIFVSWRNPQVAPTS AHQNRPQRNPVSRPPNTQRVARRKHYA ADGYTERRWTDAPCRA/VEFPFPNPWE AQYRIIRK
2528	10579	A	345	85	194	
2529	10580	A	3450	106	375	
2530	10581	A	3451	232	376	KKGVLSCLVRRHSMET*NEKPALLKMSGI KIPSPVHHFVFHKQSEKGAV
2531	10582	A	3452	481	781	IKDOKVSNQSLICCGYLVAMTDEITYA DFIASGRTGRNRAIHDLVSSASGNSNEL ALKLAGLDINKTVEGEDAQRSSTEQSG EAQEEAKSSESLTPH
2532	10583	A	3453	15	369	RVGEYDGYEAGPAPCPPRASLCQ/PGPD QGPSPCTQAIAPPRKPHCPWPQGPKLL GELPGCLCQGSPTAGHPPCPQETGAQG GAPASPWFSQNNACGLICFCPPQPRFL CINSNS

2533	10584	A	3454	201	711	KKMARTKQJARKSTGKAPRQTAG/LA TKAARKSAPSTGGVKKPHRYRPQTVAL REIJRRYOKSTEULLIRKLPFQQRULVREJAA GFSKTLRUFQOSARICRACRRLAKRYLVLG LFEDINNLCAIJAHAKRVTIHAPKTQIQLARR DTGEKRALSEGSFYGVLLVKPLLKYFGLI C
2534	10585	A	3455	758	1188	GKLSRGRTGSLLRGDALPRLQKTCGCPKA GGNRRPAVSOSRGAVRDEGLLAQTA EGGPRVEEARPPQLPQARGSLP,PETPPPA PDAVTPPPSGSHISPPSAEGPSRPPVGAV DSGGAPQPQDPGPAPAPALLRHRHQT RP
2535	10586	A	3456	2	297	
2536	10587	A	3457	1	1128	
2537	10588	B	3458	58	1282	MRTLLKNTIVVLLPYKGSGKLYGESSTE LNEVNLNCTASQFKCAGDKCIGVTNRC DGFDGSDNSDEAGCPTTRPGMCHSDEF QCQEDGJICIPNFWECDGHIPDCLYGSDEH NACVPKTCPSSYFHCDNGNCNCHRAWLC DRDNDGDMDSDEKDCPTQPFRCPSWQW QCLGHNICVNLSSVCDGIFDCPNCQMSP HFAVAAAADVWLSQLDQSKWLQDSHVIPD VKLCVVVASAYRQSYQSLGNNDISLGYRCQ PKFRSRSIDPTGKAVQTADIRLSARATLWL GGSIEESPVLCSTLRLLLRRLPPLTWTS NRPQTQCTAQQTQTNQSVGIAAPSAIRVY PESVVLNAIVLPQDPDEPVSGLPRAFKR SVEVRLDCGTFKLVLVYCTHPGDIKVNT CKTGALVAFRCFLPX*
2538	10589	A	3459	1	1870	MGKVPMRSEKPAHEVRASTISTPDLSSI ESFSRGPESTNHTSIKGRPLTAELKNKT NRAEKKIKKEELAISVGDEEDDGKGKIKD TGDLVEMVDLAFCRCDRHNDGQDYSDER GCLYQTCQNCQFTCQNCRCISKTFVCDE DNDGCGDSDELMLHLCHTPEPTCPHPEPK CDNGRCIEMMKLCLNHLDDCLDNDSDEKG CGEFIFRASSPGAILILIVAVSTHIAITDPR LGNALPVRRIVQPOYSWTPLLKLWASR VSNCQGLLSAAKTHHTVQFSILMALPKG HLSARLTGKCVAAQVIVEGFFAGRDKFV CVLNVAFVPPYQFVLSLVRTGTASKSTVG FYRNNISVITGFLCQSSALDLETFIV VSHFYFGINECHDPSISQGDHNCITDILTS FYCSCSRPGYKLMSDKRTCVDIDECTEMP FVCSQKCENVIGSYIICKCAPGYLREPFD KTCRQNSNIEPYLIFSNRYYLRNLTDIGY FYSLILEGLDNVVALDFDRVEKRLYWIID TQROVIERMFLNKTNKETIINHRLPAAES LAWDWSSALKQGGFVHPUNNGSQHFTL LVDV*VIKWLYLISNSVPC*KRRWGLPVF WFGKREMSWEMMHG*LVEGLCGCH
2539	10590	A	346	617	711	
2540	10591	B	3460	1	2973	MEKQSINQLPYPDQLPTQCSPLTGLNE YPLSGVSPIDESWDRKSKHSAAMTLRQV HQRHQNNLFLDHNTNVEEYSAQMIGT HCCCTSSLESLLLVAQSONKIIADSVTSQV HNIYSLVENGSYIVAVADFDSISGRIFWSD ATQGKTCWAFQNGTDRRVVFDSIILTE IAIDWVGRNLWYTDYALETIEVKSDIGS HRTVLISKNLNTNPRGLALDPRMKLLYFM DSYDLYMDFCDCYNGHJHRRQVIASDLGF EV

2541	10592	A	3461	257	3561	RHKKPFFKSMNPGAG/MLYWSDQGTDS GVPAKIASANMDGTSVKTLLFTGNLEHLE CVTLDJEEQKLYWAVTGRGVIERGNVD GTDRMLVHOLSHPWGIAVHDSFLYTTD EQYEVIERVDKATGANKIVLRLNVPNLR GLQVYHRRITEP/CPN*PKTIGHYIKDK PTCSSE/AKVLYPLHPGQM*IA/DKPEAQQR GSRRL/TDLEGNNNEIDWSISCDCIYPSQ VFDLSAKIEGVVKDVRKTPCSPSSFPKGVYGP I
2542	10593	A	3462	1	10725	MAGAPPASLPPCSLISDCCASNQRDSVG VGIPSEPGVGVSLVVRFLSRSEKRNRV GVTRFSRELPPDPLRPFPEHLLFTDWRLGAI IRVYKADGGMETVIRSGIAYLHLHKSYDV NIQTSNACNQPTHPNGDCSH/CFPVPN FQRVYCGCPYGMRLASNLHILCTEGDPTNEP PTEQCGLFSFCKNGRCVCPNYYLCDGVD DCHDNSDDEQLCGTLNNNTCSSAFTCGHG ECIPAHWRCDKRNDVCDGSDEHNCNPNT
2543	10594	A	3463	3	14105	SWRRCRPKGAFASRGAAGAVCYARPPP GEHTARPCTIAEMDRGPAAVACTLILLAL VACLAPASQOECDSAHFRCGSGHICPAD WRCDGTTKDCSDDADEIGCAVVTQQQY FKCQSEGQCIPSSWVCDQDQDCCDGSD RQDCSQTCSHHQITCSNGQCPSEYRCD HVRDCPDGADENDCQYPTCEQLTCNDG ACVNTSQKCDWKVVDCRDSSDEINCTEIC LHNEFSCGNCECIPRAYVCDHDNDQCQD GSDPEHA
2544	10595	A	3469	2	230	WQDFYCYQHIFGAFFTHPDGPNSWAFS WQFVMFHCLPKCWDRYGESPRPAHFKIF VDOQCTVVKKKKIRKIKNKF
2545	10596	A	347	2	343	SSVRAVEFPEDASGGSSPGTSKSDANR ASSGGGGGLMEEMNKLAAKRKAAS QSDKPAEKKEDESQMDPSTSPSPGTTRA ATSHLTQRLAGSPSGATRWRSLLCPRC CPG
2546	10597	A	3470	134	929	RTAARGCNGIPGAAWEAALPRRRPRR HPSVNPNSRAAAGSPTRGRTEERPSGSR LGDGRGRALPGRGLGRGRGRAPERY GIGRGRGRTAAPRAAPAAARGSPRGPAG TMAAGSITIPLAPLEPDGGSGAFFFPHFK DPRKLYCKNGGFLRIHPDGRVDGVREK SDPHKLQLQAEERGVVSIKGVVGVCSNRY LAMK\EDGRLLASKCVTDECFFERLESN NYNTYRSRKYTSWVVALKRTGQYKLGS KTGPQKAILFLPMMSG
2547	10598	A	3471	1	2604	
2548	10599	A	3472	478	697	YLIVQSRFFLSSIRYCOMPMPMG/YCNP YAYQQYNNMPYPPVYHQSPGQAPYPGTQ QSPYPFPQPPQQSYYPQQ
2549	10600	A	3473	21	194	
2550	10601	A	3474	2	767	APLSPGAQLGRGAPTSAFPPPAEAAHPA ARGLRSPOLPSGAMSQNGAPGMQEEES LQGSWELHFSSNNNGGSVPASVSIYNG DMEKILLDAQHESGRSSSKSSHCDSPPS SQTPQDTNRAFETDTHSIGREKQLTVLR EDDIERRKEVESILRKNSD WIWDWSSSA GKIFPKPEFLKTPGSRATLSMRUNISV KKGGIFSAEFLKVFPLFSAALSIAPWIGL GIYGKASDQPSSTIFGWKEPGSLLDVR

2551	10602	A	3475	1	4220	MLNIVQDSALLEAIGCQMEMGGGENNL KSHSRNTSGIASSAGGSTEPPTPDSERPA QALLRDYALNTDASAQLLRSIHLVTQRL NSQWRQDMMSISLAELLSGLAKVKVM VDSGDRKRAISSVCTIVYQCSRFPLHS RDLSHSMIVAAFQCLCVWLJEHPDMLDE KDCLKEVLEVELGISGSKSKNNEQEVK YKGDKEPNPASMRVKDAAEATLTCLVN ETTLIKYSLRPTINKHSFRYFVLNDNSVILA ML
2552	10603	A	3476	3	1676	HADSDFRYFVLNDNSVILAMLEQPLGLNEQ NDFFPSVTVLVRGMSGRILAWAQQLCLL PRGAKANOKLFPVPEPPRVPVKNDVGFKYS VKHRRPPEEVDKIPFKADLSPDHLHEIVT EELEERHRKKLRLSGMAQQIAYEIHLLEQQS EEELQKRSPFDPTDCKPPPAQEQTAR LFLSHFGFLSLEALKFEPANSRLPFLHIALD STIPGFFFDIGYLDLLPCRPFDTVFIFYMK PGQKTNQEILKNVNESSRTVQPHFLEFLLS LGWSVDVGRHPGWTGHVSTWSINCCD DGEGSQQEEVISSEDIGASIFNGQKVLVY YADALTEIAFVVPSPVESLTDSESNISD QDSDSNMDLMPGILKQPSLTLELPFNH DNLNNSQRLSPSSRMRKLPGQRPVPPGLGP ETRIVSVVWVERYDDIENFPLSELMTIEIS TGVETTANSSTSLSRSTTLEKEVLVIFHPL NTGLFRKIQQGATGKFNMVJPLVUDGMIVS RRALGFLVRQTVINICRKKRLESDSYSP HVRKKQKITDIVNKYRNKQLEPEFYTS FQEVLGKNCSS
2553	10604	A	3477	288	589	WCSRRRGWYLLLGFHNWYRSSFTFLVRC TPSCPGCCPRYGIYPRSCPRLPGGVCSR YGSIHSG/R/WCSWSPSWPLTSVTPRL YVALM*AVVCPVVGKQP
2554	10605	A	3478	1250	1909	GAGPDMVWDTELELALKISKGQLRPIKA HREEREDOKHESRCVIVYFGTAKKWILK DKNGRSRVDVISHRLKVSSGLCKTHEIG FDPLALKCPLRSRTAPWWPLDRVSPFLH HLVIGNFVGNRKJFLDYLVYGFHNNR WKLLVQWSWSDGCVIRHTFGLVKSFSKAS FCIPITKQRKSSEDLAALKQICANTARVIL KLKHIFHPVSYMCIFLFTCENGHL
2555	10606	A	3479	3	246	AAAMMSALSLLJLGLLTAVPPASCQQ/GEP AHMILTVGNKADGVVLVTDGRYSSMAA SFRSSEHENAYENVPEEGKVRSTPM

2556	10607	A	348	2	2355	WCDLGSLOQPPPPRFKQFSCLSLPRHS*TS Q*POPKTOLNFTVAIDFTASGETRMSE KVGGNPLQPTSLHYMSPYQLSAYAMAL KAVGEIJDYDSDKLFPAYGFGAKLPPE GRISHOFPLNNNDEDPNCAGIEGVLSEYF QSLRTVOLYGPYTFAPVINVQASNSWSS VTLGTDSEPAVEPVQVGIRLVEGFTIK KPMAMCHRMGVRAVPLTQRGSEGV KDSGTPHTSLHTKAQQLPSPHVLRHQGQV LRRQHSKLVGTAKALSTTGKALRTLPTAK VFISLPPNLDFKVAPESLKPKRSIREDRNG RSQKTVHTEGDMNNNIKKIVKQATVLT FTALLAGGATQAFAKENNQKAYKETY GVSHITRHDMQLQPKQQNQEYQVQPOFD QSTKNIKESAKGLDVWDWSWPLQNAADGTV AEYNGYIIVFALAGSPKDADDTISYMPF YQKVGDNDSIDSWKNAQRGVFKDSDKFD ANDPLKDQTQEWSGSAFTFSDGKIRLFYT DYSGKHYGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIIFDGDGKTYQNVQQKFIDEGN YTSGDNHTLDRDPHYVEDKGHKYLVFEA NTGTENGYQGEESLNFNKAYGGGTNEF RKESSQKLQSAKKRDAELANGALGIEL NNDYTLKVKVMKPLITSNTVTEIERANV FKMNNGKWLFLDSRGSKMTIDGINSNDI YMIGYVNSNLGTGPYKPLNKTGLVLQMG LDPNDVFTYSHFAVPQAKGNNWITSY MTNRGFFEDDKATFAPSFLMNKGNKTS VVKNISLEPGQLOAVN
2557	10608	A	3480	162	530	ELLQPMSSALLILGLLTAVPPASCQOGL GNLOPWMQGLIAAAAFLVLAIAFAVN HFWGAKEP/ESPAHMLTVGNK/ADGV LVGTDGRYSSMAAFRSSEHENAYEN VPEEGKVRSTPM
2558	10609	A	3481	4	409	NAATSLTANPDTATTNVIENDPGETPKHOP GSPRGSGREEDDELLGNDSDKT/EGTV- SGNDSEVNNDTLPWLPWKGQANRPLLS LLAGQKKSPPFWTFEYYQTFDDVDTYQV FDRIGSLLIPGKNFVRLYIRSIV
2559	10610	A	3482	160	518	
2560	10611	A	3483	12	197	
2561	10612	A	3484	2	321	AROVYGYSLFYIPTTAILWIIPIHKAVRWL LVQVALGIGSLLAMFTFWPAVREDNRRV ALATITVILHMLLSVGLACCFDAPE MDHLPTTTGTPNQTVAAAKSS
2562	10613	A	3485	187	1280	PLARLNCLCSSLSPSPSNSLSSLFLIGTSI GCTCSKHKSHPKCQIIFLIGRRLTRGMA AVDDLQFEEPGNAATSLTANPDATTNVI EDPGETPKHQPGSPRSGCREEDDELLGN DDSDKTELLAQKQKSSPFWTFEYQTFIF DVDTYQVFDRIGSLLIPGKNFVRLYIR SNPDLYGPFWICATLVFIAJISGNLSNFLI HLGEKTYHVPFPRKVSIATIHYAYAW LVPLALWGFLMWRNSKVMNIVSFLEI VCVYGYSLFYIPTTAILWIIPIKAVRWL MIALGISGSSLAMFTFWPAVREDNRRVAL ALVTITVILHMLLSVGLACCFDAPEMDH ILPTTTAIPNOTVAAAKSS
2563	10614	A	3486	112	563	LDSSHCCSCSTALFRQTAAAVPRMVI RVYIASSISGSTAI/RGKRQDVLGFLEAN KIGFRKDIAANGENRKWMRENVPENS RPTGTIVPLPQIQFNEQSQRGDIYDAFPFG RPEENNAVYCLLRTGATPPGVSKGRQE GAKPKAGQALTL
2564	10615	A	3487	105	335	GRLFPKVLSYHSVGVYLPLILFCHFLLANC ILCLMHFL*FQFSYRF*G*KFGFTQHHC HYIFHKQWPILLWKNFPEH

2565	10616	A	3488	993	1338	QNCCLKPHFFFFETRVSLLPKREAMGTISTHCNLCLPGFQGNNSPASASQGRL/AGLHGMGPPCR/RGTFVFLIGDRGFLHVGSWSWNSQPVIRPVPRPSPKCWGLQGMMEATVPS
2566	10617	A	3489	2	454	PLLPALPGCHALAPSSYIPVRALEPPSPYHQQLKMSQIPGVPPQRSPFLLSPLDVDSHQAPRHTGLPAPSSLSSPPWSCPILFSLWFFEAISGVCH/HWTSVIAASNSNPIPELPHHPHLRISAWLFPWRDHSQDPLCRGATSPV LNS
2567	10618	A	349	1129	1821	AWGSGKQQRRQEAQCEVAEFTPAWRRAPDTAPLVLEPARA*HTSPKKHPPMWCRRFFFRQSFALVPQIGVQWRNGLSLOQPLPRFKAFSYPPQPPSSWHYRJHPIFVFSANFCIFNKRWGFITMLAKLIVLNS*PHEIHPGPGSOSAGIMGVSHCTWLVLFSFKVVLDYFFEKPN*GNRIFEFYFLFETGSHHSVNQAGVQR/PYHASLQPQOPQAAQVSLPSSWDYRIVPP
2568	10619	A	3490	1109	1448	PRLSKCFCLLFFRQSHFVAQAGQVQWCDLRSVYHLPPGLKRFSCLSLPSSWDYRHLPCCPANFCNSRDRVSPCCPGWFRTDPFGDPPASASPKWWETYLP*PGFDHKAF
2569	10620	A	3491	14	250	VLSVGLPTGDTGIGLSRKTSPAPVALIHSHSLKQAHPLTLGSRGTGNIHAIYYRGVLKYCNFICLGFMLRYQLVSPSF
2570	10621	A	3492	1	1065	
2571	10622	A	3493	90	1937	AGGNORTOSPRKNCNMAFOASHRPAWGKSRKKNWQYEGPTQKFLKRNNVSAPDGPSPDSISASSEQSGAQOQPGLOVERIVDKRKNKKGGTEYLVWKGYDSEDDTWEPEQHVNCEEYIHD芬NRHTEKOKESTLTRTNTSPNNARKOIRSSTNSNFSKTPKA LVIGKDHESKNSQLFQASQKFRKNTAPSLSRKNNMDLAKSGIKLVPKSPVKSRTAVDGFQSESPEKLDPVQEQQEDTVAPEVAAEKPVGALLGPGAERARM(GSPRIPRHLPLVQVQPVTAAMATGLAVNKGTKSPFMDA LTANGTTNQTSVTVTQASKRKFIDDRDQPFDKRLRFLRSVRQTESAYRYRDJIVVRKQDGFTHILLSTKSSENNNSLNPLEVLRVQVS ALSTAAANDSKVWVLPRAVGSVFCCGLNFNYFKPLPNARKRESIKMAEAIRFNVTIQQFKKPIVAVNQPAIGLQASILPLCDVWVANEKAWFQPTYTFQIQSQEGLCSPVMFPIKMGGSICILDAVLGDRNLTQAECGKGLVSRVFWPGSTPKVMVRIKELASCNPVVLEESKALVRCNMKMELEQANEIRECEVKKIWGSAQODGTRMLKVLCRGKIE
2572	10623	A	3494	2	572	WCLQHD/LGHASIFKKSWWNHVAQKFWMGQ/LKGFSAHWWNPRIFQIJIHAKPNIFHKPDVTVAQVFLQGESSVEYGKKRRLYLPNNQHLYFFLIGPLLLTUVNFEVENLAYMLVCMQWAVSGVQADPGHTAAVAGGAGSADSTCP*RTQTCNTLLWAASFYARFLFLSYLPFYGVGPVLLFFAVRYGREWR
2573	10624	A	3495	25	430	YKNNSFPPILALGKCAMTLFPLPLSHQAAQSQGHRAAEYTCGRSPFPVGSLPWGQAAAMRAGGWVGRTAECFSGMSERPG*RSORGAGGQPRPSGMSLGGPVPPAPSSPLLPGRCNPRTERTWNLPTRSWA

2574	10625	A	3496	821	1412	GSARASPOQPGKFL VRVDHTDEPHQPGD RPREAPGLGQLSAGSHLQRGALTIVHQI VQRAPOQLPDRAPPLPQDAETQLOPQGCPA CQAVACQVARPOLRSEALPVRHAGGIR QVPEESELVTSCWPTTSISEGNTQAGREGL RAPATKPSPRDRIPPTPLTSLGVPCLPS WYCCPLPLGGLTCVFSSPMALALGMLMQ G
2575	10626	A	3497	32	616	VLCOSHGCFSQPSSGG/LTDEAASSCCSD ADPSTKDFLQQTMRLRKDPKSLDFY TRVLGMMTLIQKCDPFIM/KFSLYFLAYE DKNDIPKE/KDEKJIAWA/VSRAKATLELTQ QFALKDDATQSYIINGNSDPRFGFHIGI AVPDVYSACKRFEELGVKFVKKPDGD KMKGIAFIQDPDGYWIEIJLNPNKMATL M
2576	10627	A	3498	77	403	
2577	10628	A	3499	18	753	TQQLTSTCYRAFASWRTRSLLEPATILP TTCPPAPAAMCRTLAAPPTTICLERAKEF KTLIGIFPHKSIELGFDGTGSTGKFWEGSK HSGKDILKTSOKDVLGWRESPDLLSSK NGVIAAFHAFILKTEFSEENLFWLACEE FFKURSATKLASRAH/QFEEFICSEAPKE VNIDHETRELTRMNLQTATATCPDAAQG KTRILMEKD/SFYPRFLKSPAYRDLAAQ ASAASATLSSCLDEPSHT
2578	10629	A	35	45	819	RSALSLPRLECNGAISAHCKLRLPGSRHS PASASRAAGTTGAHHRARLIFVVFLVET GFIIRVSQDGLE/LPDL/DDPPASASQSAI TGVTAAPSRACSFKLARGRACPGWWDWA EELTGTSHTRVRVHPQALWGWDWRRC CGSRSSWQT*LQRCPAVLRLGWLACLTAQ EEQIGPYVSVSPPVIGPAACCFIDVLR* KISDKDVFKAGRGAQKTFSPFLRKLSPN TQARVQWCDLSSLQLLPPRFK*FCSFLP SRTI*
2579	10630	A	350	325	608	LMPCNPRHFERLRLQADHLRGSGVPRALV QHGETLSVLIQKLGHGHTCL*SQLLRR LRQKNLSSLGGRGCSKLRSHHCTPAWV TEPDVSKKK
2580	10631	A	3500	28	342	PGSTHASADAWVHPKNI/SSVNLSPGPH CAQTEIVVSPAPRCLCHRRGPRPSCCPN PVPSLTSCLTRFPSCLCRATLKNGRKACLN PASPIVKKIIIEKMLNSDKSN
2581	10632	A	3501	1	274	MARATLSAAPSNPRLRVALLLLLLVAA SRAAGASVVTTELRCOCLQTLQGIGHLKN IQSVNATLKNGKKACLN.PASPMVQKIIIE KILNP
2582	10633	A	3502	1	893	MSSREVTPPGKDVARSLRGSGSDPRT ALGSRASSQAVISVSLRAAGRSRSRSRDS GQKENIPOLAGVTQDSQRTTSVLSAAPTPL HPRGGAIAGLPNSGSIWSSGNFPGPGLRA FQOPCIGVRRSRRATEPQGPQAAPCQLS SSHRSNRLLSPMARAATLSAAPSNPRLR VALLLLLLVAASRRAAGAPLATELRQOC LQTLOGHLKNIQSVKVSPPGPHCAQTE VM*VSP/AAAATAGVWPDSPAAPNPVLS TSCLTRFPSCLCRATLKNGQKACLN.PAS MVKKIIIEKMLKK
2583	10634	A	3503	1	407	ATEPGPQAPPRLFRSSHSRQTRLLSPWMA RAALSAAPSNPRLRVALLLLLLVAAGR RAAGASVATELRCQCLQTLQGIGHLKNQ SVNPKSPGPHCAQNEVHKTQEMGGKA CLNPASPIVKKIIIEKMLNSDKSN

2584	10635	A	3507	47	89	KQPFTEVWPAGGERLSGARPKEARLLR WCPMSFKNRSDRFYSTRCCGICCHVR TGTILGTWYMWVNNLMAILLTVEVTHP NSMPAVNQYEWIGNYSERADMADNA C/VFFAVSVLKVVYNPVMLVYGSNFLY PSGVGWIPFCYRLFDPVLSCLVIAISLLT YLPRKEYLUDQI.PDPDKDDRLALDSS CLFLVLFVFAFFIFKAYLINCWVNCYK YINNRN/VCPEIAVYPAFEAPPQYVLFPTY EMGREKWPKEPHPPPLLTWPEGNSGLW TINP
2585	10636	A	3508	246	559	MPVAVMAES/AFSFKKLLDQCENQELEA PGGIATPPVYQQLALYLLHN/GORIWIQR DFPGIYTITNAHQWSETVQPIIMEALRDAT RRRAFALVSQAYTSIIADDFA
2586	10637	A	3509	2	250	
2587	10638	A	351	3	218	
2588	10639	A	3510	2	119	
2589	10640	A	3511	197	921	GTWWGLAVRTVQRRGPAAKMPVAVMA ESAFSFKKLLDQCENQELEAPGGIA/TP KVYQQLALYLLHN/NDMNNUNARYLWKRJ PPAISANSELGGIWSVGORIWIQRDFPG IYTITNAHQWSETVQPIYGKHFDRDAT/R RDRAFAPGLLQA/VVFOSIRPMIFAADVGA LPVNEEAVKGLUEQGW/QAIDSTTRNGSC PGKPVCRGPDVFPFNKFISLYSEPAPV PIPNEQQQARLTDYVAPLEN
2590	10641	A	3512	3	354	
2591	10642	A	3513	1	179	
2592	10643	A	3514	63	386	LRTLISCHLVVLMILFLHTGGDDGLI.RG WDTVPGKFLFTSKR*PPKGHGSVPFTA PAPFGSPALPFPGVWCVLDTGSEAAASC RHTMGVCSIQSSPHREHILATGR
2593	10644	A	3515	1	147	
2594	10645	A	3516	450	1154	KSHVLEPLSSLALEEQCLALSLDWSTGK TGRAGDQPLKIJSSDSTGQLHLLMVNETR PRQKVASWQAHQFEAW/TCCFQLPWH PEIVYSGDDGDLRGWDTRVPGTFLFTS/ IKTHHGCVASIQSKPSSGAHPWRESYDE THPTV/DTRNMKQLADTPVQGVWRRIK WHPPFHHLI/LAACMHSGFKILNCQKAM EERQEATVLTSHTLPSLVYGADWSWL LFRSLQRAPLVVLS
2595	10646	A	3517	73	168	
2596	10647	A	3518	322	671	RLWASPAAPGKKKEMGNNSMKSTPAPAE RPLPNPEGLDSDFLAVLSDYPSDIPNPFI RKGELLRVISDERGWVWKAISLSTGRESY IPAICVARSYHGWL.RGPKGKMAEELL QLPD
2597	10648	A	3519	624	1580	KAATSENKII(CCEWRTSQAALMLHRI.W ASPAAPGKKKEMGNNSMKSTPAPAE.RPLP NPEGLDSDFLAVLSDYPSDIPNPFI RKGELLRVISDERGWVWKAISLSTGRESY IPAICVARSYHGWL.RGPKGKMAEELL QLPD PDTKVGSFMNRESETKKGFYSLVRHRQ VKTYIRFLPNNWYIYSPRLT.FQCL.EDL VNHYSEVADGLCCVLITPCLT/TQSTA/AP AVRACSSPVILRQKTVDWRRVSRQLED PEGTEPNPLGVVESLFSYGLRESIASYLSL TSEDISSFDRKKSSISL.MYGGSKRKSSFWS SPPYFED

2598	10649	A	352	319	1979	VPGVPAARPERECAHAPASFPFFFFGGLDS GFPVSPVODFDKKLTAEADAYQLILEQKL F*QASKURDEDEQRKKJETLKETTNMSV ESIKHCIVLQIAKQDSNAEKHADGMIST IKSCRNCNIPA*SLGTCDDQAQCLPRLPYLQ NPLSCVSSQSSVHLS*QVGPVLSYLGTS SNTQIVPGSGNFTNLAASTLPSQAMSTLS PNTVPEFSYSRQ*EDEFYDAD/ENSIKVG SSPKRLIDSSGSASVLTTHSSGNLSKRPDT TESLNSLSSNNTSDADLFDSHDDRDRDDA EAGSVEEHKSVMHLLSQVRLGMDLTK VVLPTFILERSLLEMYADFFAHPDLFVS ISDQKDPKDRMVQVVKWYLSAFHAGRK GSVAKCPYNPILGEFOCHWTLPNDTE NKELVSEGPVPGVSKNSVTFVVAEQVSH HPPISLFLMELCFNKKQJQFNAHIVWIKSKF LGMISIGVHNIGGCVSCLDYDEHYLTP NGYGRSILTPVWVELOGECNINCSTG SANIPHTKPFYGGKKHRITAEIFSPNDDK SCSIEGEWNG
2599	10650	A	3520	24	688	VDHPYKRTKEVRAQRSPKSQDIYLLG VLLVYRFSGPPEEPNSIOTRVLKURL HPPISLFLMELCFNKKQJQFNAHIVWIKSKF LGMISIGVHNIGGCVSCLDYDEHYLTP NGYGRSILTPVWVELOGECNINCSTG SANIPHTKPFYGGKKHRITAEIFSPNDDK SCSIEGEWNG
2600	10651	A	3522	195	391	PGVAGARHPLGAAPKGRLUEVLAGV FH GSAANQVWVVKSKSHQFPIPTDQEIGGDR LKGTCRPLS
2601	10652	A	3523	112	492	AHSRTPARPENRAAASAPRKPRAMSSP PEKGLETKAGHPPAVKAGGMRIVQKHP HTGDTKEEKDKDDQEWESPSPPKPTVFI SGVIARGDKDFFPAAAQVVAHQKPHASM DKHPSRTOHIOQPRK
2602	10653	A	3524	3	982	GTRVGAVWRSVRLLGPGAGLRRGGV VL KVSPSPCRGGRVVPVRAEGARGRGPRN KVPGASSGAAVGAAARLTAPLAKAMAS KLRAVILAGPPGLKGKAPVCQRIAQNF LQHLSLSSHGFRENKIASTEVGEMANQV YREKVFVLPDHVITRLMMSELENRRGQ HWLIDGFPRTLGQAEALDKICEVDLVIS LNIPFETLKDGLNRWHPIPSGRVYNL DFNPVPHVGIDDDVTGEPVLVQQEDDKPE AAVAAIRLQRQYKDVAKPVIELYKSURGV HQFSGTETNKMWPVYYVITLSENKJPIQ SKESLTLAQWEEPWNDVGHFSQ
2603	10654	A	3525	19	445	
2604	10655	A	3526	1	622	QAAWILKARALTEMVYIDEIDVDQEGIA EMMLDENIAIAQVPRPGTSLKLPGTNQTG GPSQAVRPITSHESEKPTIGFLRPSTOSGRP GTMEQAIRTPRJAYTARPITSSSGRFVRL GTASMLTSPDGPFIN'SRLNLTKYSQPK MAKAALPEYIFHHENDVKTALEALASITE HSQYKDWWVKVQIEKRYYRLGMYREA EKOLISAMKQ

2605	10656	A	3527	1	1509	MKAELCKSRTVKDWLHNHQKLGEGNKTDSPPQSEGNTNTLILDFWPLEMIACCWETFPQRLLAELFMNPTHRWHGKYNQSVGALRPLQQGSPSRGLPGRVGRRLQFTPRPLSWASAGPSLAAPAAMSEMEPLLAWSYFRRRKFQLCADLCTQMLKEKSPYDQEPDPELPVHQAAWILKARALTEMVYIDEIDVQEGIAEMMLDENAI/PSSTPITQAGRPTGFLRPSTQSGRPKTMEQAIQTRPTAYTARPITSSSGRFVRLLGTMGMYREAKQFKSALKQOEMVDTFLYLAKVVSLDQPVTLALNLFKQGLDKFPGEVFTLLCGIARIYEEMNNMSAAEYYKEVLKQDNTHVEAICIGSNHSDQPEJALRFYRLLQMGHYNQOLFNNLGLCCFYAQCYDMLTSFERALSLAEENEAAADVWVNGLHVAVGIGDTNLAHOCFRLALVNNNNHAEAYNNLAVLGADEG/RHVEQARALLQTASSISPHMYEPHF
2606	10657	A	353	27	749	CCCFQELVTL*GCKLCTFHGRKWETrLEPLPQRDPSPYRVMLGELRGIVFLTGIVSPRTENDQEISEDTRSHGVLQGLPQKDISQGLKFKEAYEREVSLKRPLGNPGERLNRKMPDFQOVTVVERS*PPGERERA/RKYNDFGNSFTVNSNLISHQRLPVG/DTRPHKDECSSKSNRNTSDLIQHQRHTGEKPYECNSICGKAFQSOSHHLJQHQRHTGEKPYECSDWGKTFCSSSDLLLH
2607	10658	A	3531	1	174	
2608	10659	A	3532	1	189	MDAVAVYHGKISRETGEKLLATGLDGSYLLRDSESPGVYCLCVLFQKPDQGIVIPLYPV
2609	10660	A	3533	3	210	CPRVHQAMDAVAVYHGKISRETGEKLLATGLDGSYLLRDSESPGVYCLCVL*YVCCCEYDTVDPCLWLYVMAA
2610	10661	A	3534	1	386	GISLAQFSSAACPRVHQAMDAVAVYHGKISRETGEKLLATGLDGSYLLRDSESPGVYCLCVLYHGVIYTYRVSQTEGWSA/EAQFKPDKQGIVIPLOQYPVKEKSSARSTQTTGIREDPDVCLKAP
2611	10662	A	3535	224	751	LPGCSSSGISLAQFSSAACPRVHQAMDAVAVYHGKISRETGEKLLATGLDGSYLLRDSESPGVYCLCVLYHGVIYTYRVSQTEGWSAETAPGVHKEYFRKMKKSHFQHFQKQDQGIVIPLOQYPVKEKSSARSQTGTTGIREDPDVCLKAPITNIC
2612	10663	A	3536	3	199	SIRAEAMSRSVVAALVALALISLSGLAEAJQRTPKIQVYITSSSREWKVKFPPELLCVVWSSTPTLKLY
2613	10664	A	3537	134	404	
2614	10665	A	3538	415	533	
2615	10666	A	3539	1	3349	MDQPEAPCSSTGPRLAVALRELLAALEELSQEOLKRFRRHKLRLDVGPDGRSPWGRERADAVDLAEQLAQFYCPEPALEVARKTLRADARDVAAQLQERRLQLRGLGLSGGTLVSSEYKKKYYREIVLQLHARVKERNARSKITKRFKLLJAPESAAPPEEALGPAEPEPGRARRSDTHTFNRFLRDRDEEGRRPRTLVVLQGPAGIGKTMMAKKILYDWAAAGLYQGQVDFAFFMPGCELLERPGTRSLADLID
2616	10667	A	354	69	378	KGGSLLGAPRVEGPNFGLKDSSSPKKRFPALPPGGGN/KRAGCPCPGKPGFLKKKGVPVGGKRGGLNRPQGDSS*PKGGITGGAPRPGKKRSFSLQKIL
2617	10668	A	3540	3	261	
2618	10669	A	3541	3	429	

2619	10670	A	3542	1	859	ALGKQKCEEWRSKY/EALK/ED/WRNLG AQHRELESQLHVLSQKLQGADSRDLQMQ NQALRSLRQNEHQQLQAKIECLQADRDLC SLYTODDQLQKRSEAEKLTLVTRVQQL QGLLONQSLQLOEQEKLTLTK/KRSANL PQILRYCSFSYLPRGSGMDYMTWSPSQ FWEFC*VRDVWELFKD*SLALRTLQLVLS LLS*DQALPVWSPIPSF*NEVEPEGTGKE KDWDLRDQLQKTLQLQAKEKECRELH SELNDNLSDEYLSCLRKLQHCREELNQSQ QLPQRQCQHLP
2620	10671	A	3543	392	2016	AKRNRCLEVIIMISPDRPRSPGLARGAESY EAKCERRQEIRESRCRCPNVITCROVGK KGKAQHQAREOQSPRRPGQVGTGTSSEV FPAOHPHPSGICRDLSDHLLSQAGGLPPQ DTPIKKPKHHRGRTQTAKEOPTIKNDAS QQTNYGVAVLDKEIIQLSDYLKEALQRE LVLKQKMVLQDILIIQSLQASDSSWKGQ LNEDKLKGKLRSIENQLYTC1QKYSWP GMKVKVLEMEDQKNSYEQKAESLQK VLEEKMNAAEQQLOSTQRSLSLAEQKCE EWRSOYEALKEDWRTLGTQHRELESQ HVLQSKLOGADSRDLQMNQALRFLENE HQQLQAKIECLQGDRDLCSDLTDQDLQD QLKRSEAEKTLTVTRVQQLQGLQNQSL QLEQEKKLLTKKDQALPVWSPKSFNPNEV EPEGTGKEKDWDLRDQLQKTLQLQAK EKECRELHSELDNLSDSEYLSCLRKLQHC REELNQSQQLPPRVRQCQVKGPLPVLMVVI APALAVFLANKNNLMI
2621	10672	A	3544	35	219	
2622	10673	A	3545	293	479	
2623	10674	A	3546	1	968	VKLPSCPDPAMGTSLLCWMALCLLGAD HADTGVSQNPRLHNTKRGQNVTFRCDPH SEHINRLWYVRQTLGQGPEFLTYFQNEA QLEKSRLLSDRFSAEQPKGSFSTLEIQRTE QGDSAMYLCASSLAGLNQPOHFGDGT LSILEDLNKVFPPEVAVFEPSEAEIHSHTQK ATLVCLATGVFPDPHVELSWVNVNGKEV HSVGSTDPOPLKEQPALNDSRVCCLSSRL RVSATFWQNPBNHFRQVQFYGLSEN DEWTQDRAKPVTQIVSAEAWGRADCGF TSVSYQQGVLSATILYEILLGKATLYAV LVSALVLMAVMKRDKF
2624	10675	A	3547	278	1283	GGIEIEORPSCLGRCLDPSLSSLVMNISL ELGSVFSAVISQKPSRDICHRTSLTIQGQ VDSQVTMMWFYRQOQGQSLTLIATANQ GSEATVESGFVIDKFPISPRNLTFTSLTVS NMSPEDSIYLCSVEEQGFGVGAETQYF GUPTRLLVLEDLKNVFPPEVA/VLFEPSE AEIHSHTQKATLVCLACIYLDHVLSW VNQKEAHGSVSTDPOPLKEQPALNDSRVC CLSSRLRVSATFWQNPBNHFRQVQFY GLSENDEWTQDRAKPVTQIVSAEAWGR ADCGFTSGKSYQQGVLSATILYEILLGK ATLYAVLVSALVLMAVMKRDKDSRG
2625	10676	A	3548	151	286	
2626	10677	A	3549	28	177	
2627	10678	A	355	213	660	KPVILGYAEPPAPGQFSGP/WSRAE/WP GTASPLLV/SCATSALL*SPKGPDSHRRGH QHGTPKTSPKPEKGTAHGQLSRVYTPQ KEIAPLNPPALSKSPSKENRDRDPRDLTGPGQ TSRALTVAPGCALGPQVEPMKALRRQM GGAVEPLGS
2628	10679	A	3550	422	671	RIYAPALRMPINTASIAQARKLVEQLFQM VANDIRIKVSKAAADLMLAYCEAHAKEDP VLLTVPVASENPFKKEKKFFCAHPLSL

2629	10680	B	3551	62	299	MFLKKWNNAVAMWSWDVECDTCAICR VQVMDEGIGVRNWESEALNLIYASEMGF DLJDMGSQTSLSPLAHWLLNNLGWMNL X*
2630	10681	A	3552	1	602	ADVEDGEETCALASHGSSGSKSGGDK MFLKKWNNAVAMWSWDVECDTCAICR VQVMDEGIGVRNWESEALNLIYASEMGF DCRSGSTALAVPSVSLASH*QPCLDDHR* QPIGSIOSSL*RNQSQS*GRK*KVASYEL LKEGFCVNACLRCQAENKQEDCVVVW GENCNHSFHNCMSLWWQNNRCPLCQQ DWVVRIGK
2631	10682	A	3553	2	428	SQGSTEPLGLSAFPKPPTSSAVGSVGAA ADVEDGEETCALASHGSSGSKSGGDK MFLKKWNNAVAMWSWDVECDTCAICR VQVMDAFCRCQAENKQEDFVVLGECN HSFHNCCHVPCGSKQNNRCPLCQJQDW VVQVRIGK
2632	10683	A	3555	3	378	
2633	10684	A	3556	2	299	LLNSRPRRRQQAOPSLEMONDAGEFVD LYVPRKCSASNIRGAKDHASIQMVAE VDKVTGRFNGOFKTYAJCGANRRMGES HDSFLRMAKADGIVSK
2634	10685	A	3557	1	392	RRLYCRVTSFCFLSLSRRAVWWPARRSPAF EMQNQRRRSSLYLRYARGKLSASNIRG AKDHASIQMVAEVDKVTGRFNGOFK TYAICGAAJRRMGESDDISILURLAKADGIV FKELFDWREITDVGIFCHK
2635	10686	A	3558	1	415	FRDINVENEGEIQDDEEEDGYDDD EMT GTGMKES*NSPWWVMAQ/HGGSNPQANR QTDSSSAKMSTPADKVLRKFENKNDL KLNVTDSVIVYKATEKSRQKEADM YRDKDADRATVEQVLDPRTMRILFKM VTRGIITIEINGCISTGKEANGYHASTANG ESRAIKYKTSILVFKDRDKYVSGEFRFR HGYCRGNPRKVMVTKWAEMRNLRJLN HSR/GYHCPPEIMLRRHUGLAMSFIGKDD MPATNFGKMFQLSSEKARELYLQVIQY MRRMYQDARLVHADLSEFNIMYHGGS VYIIDVSQSVEHDHPHFALEFLRKDCAN VNDFMRHRSVAVMTVRELFFVTDPPL HHENLDAYLSKAMELASQRTKERTV/SS QDHVDEEVFKRSYIPRNLJDEVKNYERD MDJIMKLKEEDMAMMAQDQNILYQTVT GLKDDLSGVQKVPALLENVQEVERTCSDS EDIGSSCESDTSEEQGDHARPKKHTID PDIDKKERKKEVKEAQRERKRNKIPKH VKKRKEETAKTKKG
2636	10687	A	3559	139	1914	AVPFHRRAAASGGALQSWTGGLLMSR VVPQFDDADSSDSENDRLLKTVEKEDDI LFEDLQDNVNENEGEIEDEE/WKEGYD DDEMTGTGMKELENSPRVMSIGRKRQF TGKSTD PDSSSAKMSTPADKVLRKFEN KINLDKLNVTDVSINKVTEKSRQKEADM YRDKDADRATVEQVLDPRTMRILFKM VTRGIITIEINGCISTGKEANGYHASTANG ESRAIKYKTSILVFKDRDKYVSGEFRFR HGYCRGNPRKVMVTKWAEMRNLRJLN HSR/GYHCPPEIMLRRHUGLAMSFIGKDD MPATNFGKMFQLSSEKARELYLQVIQY MRRMYQDARLVHADLSEFNIMYHGGS VYIIDVSQSVEHDHPHFALEFLRKDCAN VNDFMRHRSVAVMTVRELFFVTDPPL HHENLDAYLSKAMELASQRTKERTV/SS QDHVDEEVFKRSYIPRNLJDEVKNYERD MDJIMKLKEEDMAMMAQDQNILYQTVT GLKDDLSGVQKVPALLENVQEVERTCSDS EDIGSSCESDTSEEQGDHARPKKHTID PDIDKKERKKEVKEAQRERKRNKIPKH VKKRKEETAKTKKG
2637	10688	A	356	629	1007	KGTYIKQERLENLRTNHLDKYYNPPMK QNYQKLCQKGMASRTHREESR*MRGNR CRLRITRNA*FEGENLQNKAQGENLEKK PEPATYI*EA*ESKRDKGV*KSYCVSSPPT MQ*KSD*SEYSVG
2638	10689	A	3560	129	567	SYKSLRALKSNTGGKAPURKQJOLAYKKPA SQECGPILLGGLKPKPHRYRUPGTVALREIR RIYQKSTE\LMIRKILRFQRLVREIAQDF KTDLRFQERSNQVALQEARRAYLVWP FLKDTNLVCLSLSPKRVPIMPKRHSSSAR RHHIVENVL
2639	10690	A	3564	194	338	

2640	10691	A	3565	197	522	GSAAMKVKIKCWNGVAIRWLWVANDE NCGICRMAFPNGCCPGCECSPSMLESERPR LQGAPATDCPAGCCGVPVPTCPQHALHP QVGLHAAQQVQQALAPMLPFRKGKFE
2641	10692	A	3566	1	6521	MLRKWLGVVAHACNPSTLGGQGH DKQPVQRLLSAPGSRIAGQWVLDLSK PHLLKGENDKNSLSQKAFLYVAHVLD SERGVLTMTTETGPDSEVKKQAEAAEPQ QPEAAAATTPVTAGHGHPEANSNEK HPSQQDTRPABQSLDMEEKDYSEADGLS ERITPSKAQKSPQKIAKKYKSAICRVTL DASEYCEVEKHRGQVLFDLVCEHNL LLEKDYFGLTFCDADSQKNWLDPSEKEIK KQIRSE
2642	10693	A	3567	1	1232	GCTGWEALFIKEKGFWSPATGPM AVQMDPELAKRLLFEGATVILNMPKG TEFGIDYNSWEVGPKLRLGVKMPGIGIFL HYSSVDKANPKEVGPRMGGFLSHQR LTVLRWSTLREEVDLSPAPESEVEAMRA NLOELDQFLGPYPPYATLKKWISLTNFISE ATVKLOPENRQICAFSDVLVLSMKHT KDRVGQNLPRCIGIECKSYOEGGLARLPEM KPRAGTEIRFSELPTQMPPGATPAEIK HSMDSLSYALETVHNKQFPSSQDVNLGEL QFAFVCFLLGNVYEAFEHWKRLLNLLC RSEAAAMK/HATRLWINLISILHQLGIEIP ADFFDIVSQQHNFLLTSLQVFSSACSSIA VDAATLRKKAEKFQAHLTKKERWDFAEE PEDCAPVVEELPEGIEMG
2643	10694	A	3568	2	166	
2644	10695	A	3569	56	1072	ARGGGAMEGLEENGGVVQVGELLPCKI CGRFTFPVALKKHGPICQKTTAKKKRTF DSSRQRAEGTDPITVKPLKPRPEPPKKPS NWRRKHEEFTATIRAKGLDQALKEGVG KLVPPPPUPSYDPOGFIIQW/CPY/CQRKIP MENAADRHNIFCKEQAARISNKRRFSTD TKGKPTSRQVYKPPALKNSNSPGTASS GSSRVPPQPSGAGKTVGVPSSQGVSS SSSLG/NTKLQTLSPSPHKGIAAPHGAGANV KPRNSTPPSFIAIRNPVAPGVLTNKRTY ESYIARPDPGDCASSLNGGNIKGIEGHSPG NIPKFCHECGTKYVPEWAKFCCECGIR RMIL
2645	10696	C	357	1	555	MVYVLIIESERARIKKLQEEKTRNLESSRK LEPTIVSEHKGGLRTETDIDVLOGHLT EHVSSHSQSPIDRSQWFTLSPQEYKACSY ERKDPLIKRAFIIFVYHRNAVVSHGGNGPA VVLPISRFVLTPTFESTLPFLSSRLAWGT SSKDPRIAAQQSPLKKILVSKLSSHIT VNWYNTKEES*
2646	10697	A	3571	32	469	
2647	10698	A	3572	659	1149	EVTCACRQPSVAFSTSLLALTLALLEPF SLLHCESPLLGWASSCCGGCAGSPSSAG PAGIVLK/SLAGPQLPCCRVLGLGTCSPY LSLPPAVGSFMRARSLMSAACPMARVP STTQGLLSRTPQQCQOMAQDWQAAPPAS PVQDPLEEASWAPESSGDLENFV
2648	10699	C	3573	361	501	MLFLRYAPLVGGSFICWSHPLQFFLTSIK VNVFETLFCFQSPKDF*
2649	10700	A	3574	124	579	EPLPLGLAKAGAGSLSCSVRCPAAGASPT SATPCSIAPSPIDHPRRAEECGRMVQDWQ AAPPAPRCGGHWWVKPAGLLSLLMSMVIR INMIVKLVFVILLVT*FTVKVCLYIFQGL CCGGLFCKILHGSPSHIRPKDLWHHCDL DVRHEVKGDH

2650	10701	A	3575	2765	3138	YSLKSGSVMPALFFWLRIALAMQALF WFHMNFVKVFVFSNLSLKVIGSFGMGLALN L*ITLGSMAITLILPTHEHGMFHLFVSS FISLSSGL*FSLKRSFTSLVSWIPRYFILFE AIVNGSSL
2651	10702	A	3576	265	663	GRASGVVRSPRWVCDLAGFRGEAADLH GVCSRLRSPAGFTQWIHQHGSRWSCLP VPRRAPALLALGWSMGWAPPQPLAWV LSPSLPGAGSADWLLQVRGPPSPRPPGTP AGGAPACALVPARVSPSTLPS
2652	10703	A	3577	82	361	LRSPAGFTQWIRTGAAGGAACQFRAVRP ALLSPVVVDGTGRRGAGGGAYRGSSG RTGAGHTGGSSGMAQCRSRAVPRRKAA KTRPCEVQEQRQHNVNLYLPVWETKAOT VKWFVLA*ASPCSVGSACARASPIASAAP CSTAPSIDHPRAECCWAHGTELAGSSTC SPGADPLGEASWAPE
2653	10704	A	3578	806	934	KILSSKFFPSFLPSVYCTSSFP*THPSIISTS SSSSHSVPTN
2654	10705	A	3579	1034	1393	AVLTGKVCSTPEASEETTNPPGGINNS RRASLRAAATLTVKVRSPFTPRGSAASFHK-S VRPRTHQFRTQYSPRMSK1RDCSRSCSF SFLASWRJIICLL*VLSLCAW*RYRLFWP LPSS
2655	10706	A	358	4627	5052	LSTKAPRKDTLFNKWCWENWISICRLQ LGSYLLPY'KINQKWKGLNDRSETMKL LKENIGEMLKNIGLKDFFMVKTSKA*AT KQKIGRWDYIQLKICTAKJT/IRVKRPTV DGNNFKLSNRGLISRVYKEHINSTVKKK KK
2656	10707	A	3580	529	750	REFRVRGVASADPAFGAAGRPCPCQGQ*G A*HTGQWLRRVYVWVPPQQCPTGVALDF SPLSCLPAQQGSGPAAHRA
2657	10708	A	3581	2	343	HAVFFISRSFMMFFKLVILVSNSSKLSTF LVSLLHWRVRTCSFSSEEFVITHFLKPTSVN SSNSFSVQFCSLAGEEL*SFGGEEAFWFL EFSAFLHWFFLIFMDLSTFGLCCC
2658	10709	A	3582	289	422	
2659	10710	A	3583	189	309	
2660	10711	A	3584	587	801	
2661	10712	A	3585	76	1740	SLITAASSFPQQLKQSSHLSHPSGWDR LRTMTQNLKLCSKANVYTEVPDGGWG WAVAVSFFFVEFTYGIKTFGVFFNDL MDSFNESENRSRISWIISICVFVLTFSAPLAT VLSNRULGHLRVVMLQGLLVSITGMVA SFSEQEVSHMYVAIGISGLGYCFSFLPTVT ILSQYFGTRRSIVTAVASTGECFAVF APAINMALKERIGWRYSLLFVGILLQNLNIVI FGALLRPJFIRGPASPJKVIQENRKEAQY MLENEKTRTSIDSISDGSVETTSPKNVPT HTNLELEPKADMQQVLVKTSPRSEKK APLLDFSLKEKSFICYALFLGFLATLGFFA PSLYIPLGISSLGIDQDRAAFLLSTMIAE VFGRIGAGFVLNREPIRKYIIELCVILLTV SLFAFTFATEFWGLMSCSIFFGFMVGITIG GLTHCLLKKMMSWALQKMSAAVGVYIP IQSIAGLAGPPLAGLVDQSKSIYRAFYS CAAGMALAAVCLALVRPCKMGLCORH HSGETKVVSHRGKTLQDIPEDFLEMDLA KNEHRVHVQMEPV

2662	10713	A	3586	1	2472	GTVFLLLLAPLSRLEFHKSRLKNVFGEL EAEECFYKVHLDGGEELWVRPDAETT THQGRVSQEKHQALGCKWPKLCGDA VILSAPSIDHPKAECRRRARDWQAAPP AAPVRDPLGEASWAPESGQOMKEAAEL GVS C MGP D L E K L T L Y E V K L R L Q G C K A A Q R P L G C T T L A I Q G T L Y Q R I F S P L T O P E L V N G K G W H L T Q E S L S Q N G S L E L F T S E P H S P N P N E G S S R R Q S L H T N A N N M A F A S E Q P N L P S G S G S R G F P G R A V L H L D C Q N C Q R L T A G P A Q L O G S R A A N R R A L V S P S S V A R E D G F A E E M V F T Y G I K T F G V F F N D L M D S F N E S N S R S R I S W I S I C V F V L T F S A P L A T V L S N R F G H R L V V M L Q G L L V S T G M V / A A F S Q E V S H M V V A I G H S A I M A L K E R I G W R Y S L L F V G L L Q L N I V I F G A L L R P I F R G F A S P K I V I Q E N R K E A Q Y M L E N E K T R T S I D S D S G V E L T T S P K N V P T H T N L E L E P K A D M Q V L V K T S P R S E K K A P L L D F S I L K E K S F I C Y A L F G L F A T L G F F A P S L Y I I P L G I S L G I D Q D R A F U L S T M A I A E V F G R I G A G F V L N R E P I R K I Y I E L I C V I L L T V S L F A F T F A T E F W G L M C S I F G F M V G T I G G U L T F H C L L R M M S W A L / Q K M S S A A G V Y I F I Q S I A G L A G P P L A G L L V D Q S K I Y S R A F Y S C A A G M A L A A V C L A L V R P C K M G I L C Q H H I S G E T K V V S H R G K T L Q D I P E D F L E M D L A K N E H R V H V Q M E P V V R R R F A A A G P A G L G A A G D S D A F P A R E G P E R R A G Y S G P A A A C P D F S T A A P K R E Q R G P L S L V G L E M
2663	10714	A	3587	323	1303	ST Y L P A M D T N O E E I P D L L A L G T S A W S S T L A A L E P P S L P L H C G S P F L G W S R P E L A P S A C R E V W R E K P E W E L G L R T V L Q A G Q C E F R V G V G S G D S T R S S W P P L L A P G N E G L S T R A S S C G C T G S P S R A G P P V L C S I S C Q A L A A F P R G R A G L Q P A M P E P P P R L R G L L C S P E P P R L V P P P A P G H P V P L T T Q G L R S T G T K H R D W Q A A P P A A P V R D P L G E A S W A P E S A N L V G K W R T F V S S S G T A N A P I S T L S K Q T T G I L Y Q S A G G G W G Q N L G A K Y R A / L C R P V K S D * H G R O T K D T G V R L S G K G L S N N P * L F R V G T V G S H R P H P T Y M D G L A S G V
2664	10715	A	3588	1	3552	
2665	10716	A	3589	375	646	K K S L L S I N S R I Q L V M K S G K Y V L G Y K O T L K M I R O G K A K L V I L A N N C P A L S G N N I E L G T A C G K Y Y R V C T L A I D P G D S D I I R S S M P E Q T G E K
2666	10717	A	359	1	366	K K Q I P F E L I S I Y S R V A G Y K I N T O K S V A F Y N S N K Q L O N * I K / D T M P F C A / N K * K H L P I N L T K * V Q E I Y E G N Y D T F M K * I E D / D K Q R N I S S S W * K R F I K M P I L P N L I Y R Y N A F F V K I S E S Y L V D I
2667	10718	A	3590	75	335	L R I L K F L S C S I S L L G W G P S P S L R Q E D G G R K R R K K S L E S I N R L Q L V M / K S G K L L P G G T S Q T L K M D R R Q G K A K U V I L A N N / C G P A L R K S I E I Y Y C V V W L K T G C / H I P L T V G N N I E L G A T A / C G K I T Y R V L H T G L F I D P G * L L T S F R K A C P E Q T C * K M V A A K E D E K S R W S R S T L G S N S L W K S G K L L P G G T S Q I T K M I Q T R Q S E M W F S S L T T G P S F E E I
2668	10719	A	3591	1	2580	
2669	10720	A	3592	1	1386	

2670	10721	A	3593	2	1419	RPGIGIRAPRQLHPAAGRRPDASARPRFRP TVLLHDHPQLSFPPPLSVPSPVFAVARV LPQRSGDYRAAGMPOLSGGGGGGGDP ELCATDEMIPFKDEGDPQREKIFAEIVNP EEEGDLADIKSSLVNESEIIJIPASNGHEVA RQAQTSQEPPYHDKAREHPDDGKHPDGG LYNKGPSYSSYSGYIMMPNMNNNDPYMS NGSLSPHPRTSNKVPVQPSHVNPKQGMS RHPPADPITFVPLSPGQGQJQITPPLGWQ GQPVYPTTGGFRQPYPSSLSGDTSMRSFS HPMIPGPGPMPHTIGIPHPAIVTVPQVQKQ DHPHNSSDLMLHVKPOPEQRKEOEPKRP PTKVPFLNAFLMLYMKEMRANVVAECTL KESAIAINQLGRRWHAISKEEQAKYIEL ARKERQLHMQLPGWSARDNYGKKKK RKREKLOQESASGTGPPRMTAAVY
2671	10722	A	3594	59	435	STCPAPOSARVQWCNCLSSLQPPPTPTPR SSNPSPASASQIAQUTGVRHHTQJLIVELV GDDGFHCVGSGWVSNCWPSGWRPLWP HLFLGFHKDLEVVGLFVFAISFRSWRW DLKNSSVLTHFFK
2672	10723	A	3595	54	442	
2673	10724	A	3596	360	1023	QOGRPLPERGYLAEAGVYRICGRQSRHED GTHRGAQVIEQRKRWLPAALGFQPIILQL CGKRVMPAQSRASTGQPAQASRAWSQPL HPQCGSDIIRLRVRAEYCEHGPALEQGVA SRRFQALARQLDVFQGATAVLRSRDLGS VVCDIKFSELSYLDAFWGDYLSGALLJQA LRGVELTEALREAVGREAVRLLVSVDEA DYEAGRRLLLMEEGGRRPTEAS
2674	10725	A	3597	3	370	QMYCVFNRRNEDACRY/GS/AIGVLAFLAS AFLVVDAYFPQISNAITDRKYLVIGDLLF SGVLASLASYQRYKAGVDDFIQNYVDP PDPTNTAYASYPGASTVDNYQQPPTQNAE TTEGYOPPPVY
2675	10726	A	3598	1	1356	
2676	10727	A	3599	3	706	GGGSGGDGDMESGAYGAAKAGGSFDL RRFLTQPVVVARAVVLVFALIVFSCIVY EGYNSNAHESKQMYCVFNRRNEDACRYGS AIGVLAFLASAFVLDAYFPQISNAITD RKYLVIGDILFSALWTLWFVGCFLTN QWAVTKPKTVLVGADSVRAAITFSFSI FSWGVLASLGYQRYKAGVDDFIQNYV DPTDPNTAYASYPGASVVDNYQQPPT QNAETTEGYOPPPV
2677	10728	A	36	2	424	
2678	10729	A	360	241	583	NGPPFFFFEMEFLLLPRLECNGAISAH RNLRIPGSSDPSAAGGL*SQVAGITRL RHHD*LILY/FLEMFRHRVG*AGLELLT SGDPSSASQGAGITGMHSAGHYGKF
2679	10730	A	3602	1	171	RJLMAINGKVFDTKGRKFYGPVKYHH VGKLLTAGEEPAVYSDEEFPKDESARKND
2680	10731	A	3603	3	253	LSLQEFGTSGAGRDSASRLGATFCLDEA LKDEYDDLSDLTAQQQETLSDWESQFTF K/LKEGEEPTVYSDEEFPKDESARKND
2681	10732	A	3604	3	701	PARHSLAQREEKVASSGSLPSAAQPLLSE IMAAEDVVAATGADPSDULESGQLLHEIFT SPLNLLLGLCIFLLYKIVRGDQPAASG DSDDDEPPPLRKLKRDFPTAELRRFDG VQDPAPYPSWAINGKVFDTKGRKFY GPEGPYGVFAGRKCQGALPTFLDKEA LKDEYDDLSDLTAQQQETLSDWESQF TFKYHHVGKLLKEGEEPTVYSDEEFPK ESARKND

2682	10733	A	3605	3	678 KRLPKMAEVQVLVLDGRAHSSLGR(LA) AIVAKQVLLGRKVVVVRCEGHNISNGNF \VRNKLIVLGFPPSGMNTNPSRIGPYHIF GAPSRLLAGTVRGMPLIHKTKAEAKAA \LDRLKVFDFIGUPPYQOEKSGMVVPVAA LKVVRLKPTRKFCLIWGRLAPEVGW WK YQAVTATLEEKRKREKPRFHVRKKENSEN IMLRKQAREETWRKKIDKYTEVLKTHG LLV
2683	10734	A	3606	114	353
2684	10735	A	3607	104	342
2685	10736	A	3608	211	241 NFNGRGLAAGRRKKPDWLDSTLNS*PSH
2686	10737	A	3609	37	116
2687	10738	A	361	654	942 CHACNPQHFGPRQVDHLRSGV*DQPG QHGETPSLLKUQKLAGHGGVHLS*LLR RLQENRLNLGGGCGSEPRSHCPTAW VTE*DSVSRKKKK
2688	10739	A	3610	104	516 ALLSRGVMAYEGTILLQDLTNNTILEDLE QLKSAFKEDIPSEKSEEITTGSAWFSFLE SHNLKDKNLNSYIEHFEISRRPDLLTMV VDYRTRVLKISEEDEDLTKLTRIPSACKY KDIIRLPSSEEIIKLAAPPKKA
2689	10740	A	3611	569	838 PTVLWEPSPFPPPPQGIPHSG/PDILTGR RRASPSGLCYSENGGLTEEGSTRPPAH/S PGATVSSPPPPPPSSLPCCLGNRHFD RV
2690	10741	A	3612	268	356
2691	10742	A	3613	489	605 OIQVCYCT*RPYSGTRCGVSNVQLLCS LLSHLCCSAS
2692	10743	A	3614	391	561
2693	10744	A	3615	367	855 GARRQAHHTMALK\RKINKELSDLARDPPA QCSA\GPVGUDDMFHWKATINGDLMKD PIKFGGVFFLTIHPTDYPFKTPKVAFT TRIYHPNINNSNGSICLDILRSQWSPALTIS KVLLSICSLLCDPNPMDDPLVPEIARVY VKTDRDYNRISREWTOKYAM
2694	10745	A	3616	1002	1480 MLLLKTTTERFEVSVCMACTYVVSNLGKK FSPGVSFLASGLMRVSTGPELRLLHHSFVL TGIVGRRIICRLLVGLFTKGDTTSKRVHPH FSPGPGCFLLCDLARVGSSPKNVRPHFT RTQTSQRSCITVFWVQRCSLVGPQFQVTV FTMYFHSLRSISRFSSG
2695	10746	A	3617	223	415
2696	10747	A	3618	1	858
2697	10748	A	3619	144	1339 DPEQPDMEQPWPPIPWSLPRAEGEAEE ESDFDVFPSSPRCPQLPGGAQMYSHGIE LAQOKQKEFVKSSVACKWNLAEEAQQLK GSLALINSESLDQEHAIAKAOATSIRTEGN GKKKNWRQKEEALRQREKMCWLSTDAI SKDVFNKSFINQDKRKDTEDEDKSESFM QKYEQKIRHFGMLSERWDDSQRFLSDHP YLVEETAKYLLWCFLHEAEKKGALM EQLAHQAVVMQFIMEMAKNCNVDPRGCF RLLFQKAKAEEEGYFEEAKNELEAFKSF RVLRLYSQSQSFOPMTVQNHVPHSGVGSSI GLLESLPONPDPDLYQYSISTALCSLNSVWH KEDDEPKMMMGHCIIWVKTAEAKCYFVT GKGGTWAIFLDTFMGVLALYFCSVFDG RERVLKCFVNFF
2698	10749	A	362	1	2322
2699	10750	A	3623	44	420
2700	10751	A	3624	20	421
2701	10752	A	3625	1	346 LRPQSAQSSFPSPGPSPDVQLATLAQRV KEVLPHVPLGVVQRLAKTGCVDLTTN LLEGAVAFMPDEDITKGTSQSLPTASASKF/ PROESLQERKQALYEFYARRRFTERRAQE

				AY
2702	10753	A	3626	162
2703	10754	A	3627	39
2704	10755	A	3628	1
2705	10756	A	363	8453
2706	10757	C	3631	44
2707	10758	C	3632	2037
2708	10759	A	3633	184

2709	10760	A	3637	312	805	GPQAGSSPEILLPEDNSLIRWAGAGCHTQDSATTVTASWAPLCAAGAGREEDGTPCVCLGRSARPKLVGRPLRTSAALRPGACIPHOLLCYPREPVDFRPGSGRAWPFRSPSP/CQDPRPSRSPGSEPGW/CPDPPAPRPLVTLGRASPHLTLPRRAAPPCCRWR
2710	10761	B	3639	199	286	XSELESALQMEPAAFQALYSAEKPKLEDEHVVFVFCQMGKRGQLQAHAAQFESWIIHWGSQLRWSL*
2711	10762	A	364	10	548	PRFLVSPRLEGIGAIAAH*NLCLLGSNDSPASATRVAIGITGRHAPLJFVLFVEMGFRIIVGQAGHKLLISGDPPA/SASQSAGITGVSH/ARLAALSNF*GLGQVPTPLKQATLLSLLDTSPLSLPAIFFLFFF*DRFSSVQTAEVQWGDHCSLLHP*PTGLKUDPPASASRLOTTTRTHRS
2712	10763	A	3640	754	1082	GMVIIICCLGAPRTQFQALQPNLASKLAFPTSLTSPVSELESALQMDQPAFQALYSAEKPKLEDEIILVFFCQMGKRGQLQATLARSLGYTGARNYAGAYREWLEKES
2713	10764	A	3641	113	737	AGPDFSCNFNSVCPSSSTAWILVLAQFLLSPTLSPSRMLTVALLALLCASASGNAIQARSSYSSEGYGSGGGKRFHSQGNQLDDGPITALRVRVNTYYIVGLQVRYGKGVWSDYVGGRNGDLEEYFLHPGESEVIQVSGKYKWLKEAGAYLVPVKOPFLSGKSKGPUSFNAPLHPNTVVRFISGRSGSLIDAIHLHWGCFHTHSCSRC
2714	10765	A	3642	1724	1818	
2715	10766	A	3643	1	894	RGESRVLWSELEGEAAGGAGGWASSLNA RMDNRFATAFVIAVCLS LISTIYME@SIG TDFWYEYRSPGQENSSDLNKS1WDEFIS DEADDATYNDALFVRYNGTVGFLLRVYSPVKTLLHVVLAHHERTESFVDVVTIKCV SFTLITEQFMKFWDPGK/HITNSRGLDDLLRTYLWRCQFLPPVSLGFDVWLWAGALIGLCAICRSLYSPSIATGILHLLAGLCTLGSVSCVAGIELLHQKLELPDNVSGEFGWFSCLACVSAPLQFMASALFIFIWAHTNRK EYTLMKVAYRVMGMSKKPACF
2716	10767	A	3644	323	898	
2717	10768	A	3645	816	1171	LFKHFVGWPVANWGLPIAINDMCKMSPGDYSVGRMTFALCCYCSLTFMEILPYKVQVPSGTWASCFACHTNEVRPSPFQGEGRLLIPNTRMDLKRSASINQWGKGKKNVFEQD SLCPGCC
2718	10769	A	3646	205	369	
2719	10770	A	3647	3	451	CSQAGAEGAANPRPSRSLVPSLESTSTSVPPAPGTMATDSWALAV@DEQAAAEG/SGAVVKTNANAEKTDEEKEDRAAQSLLNKLIRSLVNDNTNQVENVLRQDPNSPLYSGKSFEERLKPOLLQGQVYAMGFNQPSKIQENALPLMLAEPY
2720	10771	A	3648	1	186	
2721	10772	A	3649	2	261	SSANNISILGAFRSVTKWLS*THPL*FFCQCLCLSPTYELALQTGKVIEQMGKFYPELKLAYAVRGNKCEYGRQRQLNSEQGRGLGV
2722	10773	A	365	252	934	LCASLRLLPAPPMLSLSHRISPHWPVGWHYGC*GSRGSDIGSCRTGLCGRGSPGCIKISTSPWAPAC*APSTGPGSQETCTAHSFPIAPA*AQGLKF*GVTESICAGAAAGTA GGTETAVSAGSPAQQAQPGPGAGQSLSA GSQMA*GSDHPGPWQTC*SVQGAFALD G*GG*LHPHPP*GPATLPEGGGGVCPAA KNASGATREVPAVLQAVHAPGATWLRP
2723	10774	A	3650	1	2613	

2724	10775	A	3651	3	550	LCSSR/DEFKALCNLPG/ATMAQAMIF CCTRKTASWLAELSEKEGHQVALLSGE MMVEQRAAVIERTFREGKEKVLVTINVC ARGEORTCPPTSARLGVPGRNPCI QGSRMVSGRWVGLVTLFLSRRDCLDFP EVVRHTCQVRWLMPAIPRQENCLNP DRGCSEPRMCYSTPSWTE
2725	10776	A	3652	1	1571	CRGAGAEPAAAPRSPRSPLVPSLEYTSTSV PPAPGTMATDSWALAVDQEQAEESSL NLHLKEEKIKPDTNGAIVVKTNANAEBT DEEKEKDRAAQOSLNLKRSNLVDNTNQ VEVLQRDPNSPLSYVSKSFEELWL\KPLQLS QGVYAMGFNRPSKQENALPLMLAEPPQ NLIAQSOSGTGKTSPLVLA\MLSRVPEI RPDTPOQCLCLFPITYEAGGPKQGKVIQEM GKFVPELKLAYAVRGNKLERGQKISQE VIGVTPGT\GLNWICFOLKFIDPKKIKVVF LDEADVMIATQGHQDQSIRIQRMLPRNC QMLLFSATFEDSVWKFQAKVVPDPNPK LKEEETLDTIKQYVVLQSSRDEKFQAL CNYGAIITAQAMIF\CHTRKTASWLAEE LSKEGHQVVMGEMMVEQRAAVIERTF REGKEKVLVIT\TPNLCSRGIDVDOSVVI NFDLPPVDKD\GNPDNETYIHL\RIGHTARF GK\GRGLA\VNMDSK\HSMN\LNRIQEH FNKKIER\LDTDDLEIEEN
2726	10777	A	3653	3	421	
2727	10778	A	3654	209	435	
2728	10779	A	3655	126	775	APAKVTRAQEDRTFSSQRTRWKEQNTI DNMALLGPKGFLLAFAFIITSWDWIPLGV NSQRGDDVTQATPFTEDP\NLNDPA ATDETVLAVLADIAPISTDDL\ASLSEKNT TAECW\DEKF\CTRLYSCASGPVNQMH FIQLCFHPVLR\RMYIVQPREICSSVLVC KGTPKPMKDEL\CRQ\MA\GLP\PL\GLR\RRP QLLPDPPCENVDL\QRPNGL
2729	10780	A	366	169	457	SLEVSLGDHFQKCRFLEKRERFWKGMFS FCMSAVSGFLAAGAGLKPRSGS\WH\VFH SPRRSWTENFKFQRDEVSASPLGA\WRAL TKEK\GGAQ\PLEGL
2730	10781	C	3660	162	425	MVGPSLHAGXXXVYI\PRFLYI\RSWLP\CF FSGGVTVGNIGRQLAMGVPEKPIVIESSK PXILESXGRFLEENXLVDYXKGLSFLK *
2731	10782	A	3661	89	308	
2732	10783	A	3662	2	454	
2733	10784	A	3663	570	1418	PMPRIHDHFWSSCSAHSARRGPPRAIA AGLAIAKVGEMIIVFVSGPSLMAVLASD ADPAAPRGRSAVKSGPYGPSPYPTNTWHHS LMQKSLVLFSGVGEVLA\VLNLLQIQRNV TLFPEEVIATIFSSAWVPPCCGTAPAD VGLLYPCDISHLGEPHKFKERMGQVSMR CIAEVGINHASAKLDFANNVQLSLTLA ALSLGLWWT\DRSRSGLGLGQUTIAFLAT LUTQELVYNGVVOYTS\PD\FLYI\RSWLP\CF IIFSGSVTVGNIGRQLGYGVFLEKPHSD
2734	10785	A	3664	195	462	RIFSMTSGRLLWRCTWRPATALWSASLR LGTSSMHPSRSLP\PVH\HTHNSGKE V\LG\QVQRSRSGTGPACSQAGSGA\QVQ GNWCIF
2735	10786	A	3665	12102	12327	
2736	10787	A	3666	535	992	RIFSMTSGRLLWRCTWRPATALWSASLR RLGTSSMHPSRSLP\LSMM\LSLPLPS NTRGLSPTALVRSP\NSEHATSC\PLRHL WRCRAPLRSRSPSLPGR\LGATGPVPSH\V T\HNSGKEV\LG\QVQRSRSGTGPACSQA GSGA\QGGNWCIF
2737	10788	A	3669	76	419	

2738	10789	A	367	186	370	QIRETSQGT*YTSASQSAGIEVSHIAR QMFPFYSQKYTLPNCKL*ILMFKIKFFL TOK
2739	10790	A	3670	71	350	APIPAMAEIQLKKLQGEVEKYQQLQKDL SKSMSGRQKLEAQLTENNIVKEKRYES QLRDLERQSEQQRETQALQLQEFQRAQA AKAGAPGKA
2740	10791	A	3671	334	1191	GILPHILGPRVORLPLRSLSLTLACGLTRGP HPFLPPIHHLTRIVGIGTTEDVSKLPL SSPDLSKSMSSGRQKLEAQLTEYNIAKEV RDWDLWGEEGPVLMVLMITYVPSLHQE LALLDGSNVVFKLLGPVLUVKQELGEARA TVGKRLDYITAEM'VFIFFFFCAAPCDASE PLE'RC'TIAEQLSIVAPSPVPPTLSFFP'P PFFSLPVISRFSTYFLAFSTLHSSESY*FLP FCLSPSLSKRQEYQSLRDLERQSEQQRE TIAQLOLQEFQRAQAAKAGAPGKA
2741	10792	A	3672	210	617	APIPAMAEIQLKKLQGEVEKYQQLQKDL LSKSMSSGRQKLEAQLTENNIVKEELLALL DGSNVVFKLLGPVLUVKQELGEARAATV GKRLDYITAIEKRYESQLRDLERQSEQQRE ETIAQLOLQEFQRAQAAKAGAPGKA
2742	10793	A	3673	3	266	
2743	10794	A	3674	31	500	ARVTAAVSAAAVAKRVWRDGFDCSGY YSLTTILLVQPTKPRAEGRTYADYESWNE CMEGVCCKMYEEHLKRMNPNGPSITH NTTSQLFDIDUDLADLSCLVYRAIDTQT YQPYNNDWIKDDEPTVLLSGKAQQA REHVVGSHWGGWGGAWDTGV
2744	10795	A	3678	1	134	
2745	10796	A	3679	162	437	RRGLFPAGPGPQOEPSRASSPMPSERLRN IKDWFLLTARRKDAAKSIVKIKKNKDWNVK FKVRCRSYLLHPWSSPDKEAKLAKQS LPPRFKG
2746	10797	A	368	150	799	QC'DPETSETV'EKLRAGRHQRCHGQ SCFDKSATRALPPRKRWRHGRTRCAATK RTRLGEMAVLGP*E'RQPEEFPRTSLLA EPTVLSRRKCRPSEKRGSAKEKFGATSA VTEENPPLGAAGERANKTL/RCHRDITDE RTPASDGERRRSHTEGPINRSLAMRKGK GOSIGTENRADWAGPCKVCECS/RLV HLCVYGSHHRIWHMEGYQHMLV
2747	10798	A	3680	60	216	
2748	10799	A	3681	505	794	NVVECLFKDALPOLSAADRFLASSLGGD GVEEVHFVSNLTGEELWHLLRSTSLLG ASPPHIEVPFLEVDGDRKTQVFPLTNLH VRAHASAHAS
2749	10800	A	3682	685	1484	LRLTFFPSHTKVRITMSLFPSPLLLSSM VAASYESETVTCEDAQKTCPAVIACSSPGI INGFPGKGDGRDTKGKEKGEPEQGQLRGJLQ GPPGKLGPPGNPGPSGSPGPKGQKGDGP KSPDGDSQQASERKALQTEMARIKKW LTFSLGKQVGNKFLLTNGEIMTFEKVRA LCVKFQASVATPRNAAENGAIQNKIKEE AFLGMPDDETEGOFVTD/TGNRLTYTNW NEGEWPNNAGS\DEDCVLILLKNG\QWND SPC\STSHLAVCEFP1
2750	10801	A	3683	427	751	
2751	10802	A	3684	31	558	EFVPHSEKMLYDQAOQLAVAYLYAFQLS GDEFYSDVAKGILQVYVARSLSHRSGGFY SAEDADSPPERGQRPKEGAYYWTVKE VQQLPEPVLGATEPLTSGQLLMKHYCL TEAGNISPSQDPKGETCRARMLLDRPVL RWEELTAARFGLDV/EKAVRTLLNTGLEK LPQARKHHRPKP

2752	10803	A	3685	3	399	KCVCLLTAFSERMRRVPPVALPEMVRALS AQOQTQLKQIVUWWRPSQRTPKALVQC VHSVYIPNWLILADGDPSSFLSRQLPFLS TLRRLLEDQATAYVCENQACSVPTIDPCE LRKLLHPLTCPYPLGWGRR
2753	10804	A	3686	2	2238	NVAAMLGARAWLVRVILLPRAGAGLA ASRRGSSSRDKDRSATVSSSPVMAGGK GSHPSSTPQRVPNRILIEKSPYLLQHAYN PVDWYWPWQGEAFDKARKEKNPKIFLSVG YSTCHWCHMMEEESFQNEEIGRLLEDF VSVKVDRERPDVDKVYMTFVQATSSG GGWPMNVWLTPLNQJQPCVGGTYFPPED GLTRVGFRTVLLRIEQWQKQNKNTLLEN SQRVTTALLARSEISVGDRLQLPSSATVN NRCFQQLDGYDEEYGGFAEPKPTPTV ILSFLFSYWLSHRLTQDGSRQAQMALTH LKMMANGGIRDHVGGQFHRYSTDRQW HVPHFEMLYDQAOLAVASYSQAFQLSG DEFYSDVAKGILQYVARSLSHSGGFFYS AEDADSPPERGQRPKEGAYVWTVKEV QQLLPEPVVLGATEPLTSQQLMKHYGLT EAGNISPSQACELADKGHSQDPDKGELO GQNVLTVRSLELTAAFRGLDVEAVRTL LNSGLEKLFOARKHRKPPLDLSKMLAA WNGLMSVGYAVTGAVLGPRQLINYAT NGAKFLKRHMFDVAGSLRDLADLHRH LGLGWSTATPPCWGFLEDYAFVVRGLL DLYEAQESAWLWALRLQDTQDRLFW DSQGGGYFCSEADWAGGLPLRLKDAQ DEAEPANSVSAHNLLRLHGFTGHKDW MDKCVCLLTAFSERMRRVPPVALPEMVR ALSAQQQLTKQIVICGDRQAKDTKALGA VRPLCLHS
2754	10805	A	3687	5	188	
2755	10806	A	3688	132	341	GFTSFISRLSCLSCFLLLLET/CPVTCWCWE APRCNQKCTDPAARRPDPQTCAQSDRLR CAPCTCHQPLASR
2756	10807	C	3689	4	204	MCFORKSYFHQITLYCPLICISALRYSTG PAPAMWKCHTAPVQKDWLTLPLPTLISS PNFLTLNL*
2757	10808	A	369	1200	1678	RYKLLSYRKPTAEIQKENIPFQNLRSFS KNUHFWK*SPKETSLRYHECLQNLNSCL LTLAYPVQII/CHLFLDEPGRMSDQRRAQ INPEMFHHVHGQ/ACLNLSTSUDRSPASAS QSARIEEVSHHARQMFQFYSQKYTLPNC CKL*ILMFKIKFFLTQKQN
2758	10809	C	3690	57	209	MEVXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXGRLLGPL*
2759	10810	A	3691	363	424	
2760	10811	A	3692	2	264	KFSLJKLKRKENFPTARICRLVVPYPLKIF IPFKALNFCREVGPICPCKVKGSFPKIPKVK AFNRPPLRKKJIPSPQPALNWGPVRPV
2761	10812	A	3695	2	201	GRVGSDISCRQQQGDTKRRRLSSYPWR RRQRWRERRRTTSRRKPQFLRQRQRPRQ ARRRWRTAFA
2762	10813	A	3696	31	445	EKAVVTSASSLVYTIVYTAQPAPRSFHP FCSTWSAKEPNTTAGEGGSTNEOCQCLSA /CPGANCPLGLTLLSPONCPSSSLRPPPLP ACRGYESVWARLJQSQVHAIGQRRLRES WSPKLYWVHPFQEVVGAFTELFLV
2763	10814	A	3697	73	404	AYSRTGSSLSTMNQTALICLIFLTLSGI QGVPLSLRTVRCTCISISNQPVNPRSLKE EIPASQFCPRVIEJATMKKGEKRLCLNP ESKAIAKNLKAVSKERSKRSP
2764	10815	C	3699	250	495	
2765	10816	B	37	44	307	MVAVSCQRPTSRPAWKGKVGAHAVRS MCAEALERMFLSFPITKTYFPHFDLHS FCPLGRATGKVDALTNAVAHVGRHA

					QRRCP**
2766	10817	A	370	1	1107 MTLTEATHLLRVLVLLLASGGSLFQSPP VKSIIHGVAVTVVLLLALLALLINRYLQK ARGRARKPYTEDSVDKKTTETWEWAR GEGESYHVYDDVQKEKTTDRMIRSSSM CVHKINTSVSMCAQETPNSSKKAKI.GOK IPVQGKDEILHKALCFCPWLGKGGMPEL RLLILFVTELSGAHNTTVFQGVAGQSL QVSCPYDSMKGHWGRRAWCQRLGEKG PCQRVVSSTCGLLSFLRNVWEHSHS QTIPWGGTLITLRLQPHDAGLYOCQS LHGSEADTLRKVLVEVLADPLDHRDAG DLWFPGDRLASRMPMWSTASPGRLRAR EGR+WEKPPRSSPTRDQPSLHTCHLATR TPCSALARDYSA
2767	10818	A	3700	226	854 RVPGLTNMSGIALSRLAQERKAWRKDH PFGFVAVPTKNPDGTMMLNMWECAPG KKGKTPWEGGFLKLRMLFKDDEVYPSPPPKC KFGPPLFPPNCVTSAGSCLASFLEEDKWDH RPAITIKQIQLGIQELLNEPNIQDPAQAEA YTYCQNRVEYEKRVRAQAKFAPSCRS SLEPSRTWAVLLL.SLRPQVSISVLRHFLC VYMFACLCCCLE
2768	10819	A	3701	813	1637 TCGQIALSRLAQEYKAWRKDHFPFGYN AVPTKNPDGTMMLNMWECAPGPKKG PWEGGFLKLRMLFKDDEVYPSPPPKC PPLFSPRIVYPSGAKCACPSLEEDQRTW RSPSPFTQJTRFLRNRNFRNLKWNPNPQD SPOAEAYTIVCQNRV/ESYEKRVPSKTP RKFCAPHIKQRPCGNCNRQKEDWFGQELV YNFCKSVCSSHMTSHLGVGRAPSSH CPRGRVSRIRLNCNPVSIQGSSFLRCFCIF GLLCKTRLFILJLMSISTAVKL
2769	10820	B	3702	236	362 KQEPQIPCGGKDAAVLQGSQPSLAGIR TTRLDPSKWPKGX*
2770	10821	A	3703	1	808 TPPFLAMAPALLIPALASFLAPGTGV EFVRFTSLRPPILGGIPESGGPNDARQGWL AALQDRSILAPLAWDLGLLFFFVQGHS MAAERVKAWTTSRYYFGVLQRSLYVACTA LAQQLVMRYWEPIPKGPVLWEARAEPW ATWVPLLCFVLHVISWLLIFSIVLFDYIA ELMGLKQVYYHVLLGLGEPLALKSPRAL RLFSHLRHPVCVELLTVLWVVTPLGTD LLAFLLTLYLGLAHLQDQDRLYLRVA QLQRKLHLLSRPQDGEAE
2771	10822	A	3704	221	1728 GQAGCSDTMGSCCSCLNRSDSPDNHPT KFKVTNVDDEGVELGSGVMELOTSELV LHLHNRREAVRWPLCLRRYQYDLSNLSFS ESGRRCQOTGHGIFAPKCSRAEIFIENLLOD LMQCNNSINVMEEPVIIIRNNSPAELDLP APQPPNALGYNVASSFSNGCP/GEOPRFS PQRSLTSSLRHPSLGEESTHALIADEQS HTVYNTPASEDDHRRGRHCLQLPEGQ APFLPQARGPQDORDPQVFLQFQGVKFV GPTPARRHIMVKCOGLCPSLHDPHIIHN NNEAPSECPAOPKCTYENVTGGLWRGA GWRSLPEEPGWNGLAHRRRAALLHYENL PPLPPVWESQAQQLGEAGDUDGDSRDG LTSSNGFPDGEEDETPLQKPTSTRAAIR SHGSPVPLTRRRGSPRVFNFDFRRGPE PPRQLNYIQVVKLGKGWGGDRPKGPQNP SPQAPMPTTHPARSSDSYAVIDLKKTVA MSNLQRALPRDDGTARKTRHNSTDPL

2772	10823	A	3705	1143	1849	PAILSPNLDDLNFSVRASVPTLAPSAPSA SSSPARIPAATRQGRRSRPRPPAPSNEAASP APGRPRPVGAAWPFRPKPTIQASGADRA VDCGILKLQKSIPARLARPRWPRRSKRF WSAAGSVEEQPKPKAP/PAKSPQESPOL SVLPLATITPQAYGASFEMKMNKLTRRG GRSRWHFPFNVIPQAPSILKWGFQTSDDAS SAEVFHVDRLSLASHIKMGPGRKPRSPWL APPFWNPRLH
2773	10824	A	3706	130	360	SLPKKKNPNLHGFVGKFYQTFKEKIPASS SSNKF/PQDIESTITL/IPKPDQDFRKKEN CSSVSLIIFPEIINKILEN
2774	10825	A	3707	46	292	DQASSGGNGVTMIAARRNPDTLRLPDEAR SLPPKLTDPRLLYIGFLGYCSGLIDNVV RRRPIATADKKTGYEIFFEKFHSPIR
2775	10826	A	3708	269	476	STCLGLPLRCWNWYRREQPRLVYM*FVHL YYF
2776	10827	A	3709	448	894	DQASSGGNGVTMIAARRNPDTLRLPDEAR SLPPKLTDPRLLYIGFLGYCSGLIDNVV RRRPIATADKKTGYEIFFEKFHSPIR
2777	10828	A	371	2	1309	EQQDLQDPLEVHFPTVEAAEALH1QEP GGEPSSQPTQLPGGAPNTRPFPHQGALWS V*PAQEQLHQDGRQPTC*QWLRTCSLG WPEAQLPAHLIGQADWPSQRPP*DPE*TP PRPQQNPGPSNWRUTCFATPSCTGWA*AT TQIRMIENGKPELCPPPSGEVPGLQQQVG PGVMPGFPGPQAPGGLLILHSSNNHQSGV FNEFLPPWFGGEAEPYYNGHSASSTTP CPTGRCKPATFRRRH*PPGHPVWATTKS RGM/TAAATAGPQWGSGLNTARHPDGEA EPOGS*ARAQLASNPAPHRLVP*POLRPH SPFPWPVPGKCRWTQRPFGMTCYAWAH ELRPLALPPOPRGT*SFFLVHSACPAQ ALPPNLYCPGGGWEVEAQHPAQMTPVF LEAHPHWPTGG*VSPYPSGPAQGGAA EVGGCLSIKETPCNV
2778	10829	A	3714	1	948	
2779	10830	A	3715	644	2034	AIETQAITDNCSEERKTFLNVLNQVMNSMD IRCSDIHQGDTQGSPVIAFISYSSLNJNINA TFFEEMDKKDQVYVLNSQVVSAAIGPKR NVLSSKSVTLTQHVVKMTPSTKKVFCVV WKSTGAG/CSQWSRDGCFILHVNKSHT MCNCSHLSSFAVLMAINTSQEDPVLT TYVGLSVSLLCLLAAALTFLLCAJQNT STSLHLQLSLCLFLAHLFLVAJDQTGHK VLCSSIAQTLHLYLATLTWMLLEALYL FLTARNLTVNYSNSINRFMCKLMPFPVGV GPAVTVVAISAASRPHLYGTADRCWLH LDQGFMWSFLGPVCAIFSANLVLFILVF WILKRKLSSLNSEVSTIQNTRMLAFKAT AQFLIGCTWCLGLLQVGPAAQVMAYL FTIINSLQGFVFLVYCLILSAQQVQKQY QKWFREIVKSKESETYTLSSKMGPD PSEGDVFPRTSEEKIL
2780	10831	A	3716	1	451	FFFFFFVRQDLALSPRLCNGIIFAHCNLC LPDSSDPPPTSAFQVARTTGRNYYAQLIL YFPVETEFTAMLTRAGLNLLSSRGP/LASA SQSVGDYRNSHHAQOLIFCIFGRDRVSL WICPEWSQTPEFKRSACLPKCWDYRGE PHPVPSAL
2781	10832	A	3717	1	5898	
2782	10833	A	3718	1	333	

2783	10834	A	3719	1	5699	VNDNTNTAGSPGEVLSRCVNLKKTLR PDMWPWPKSELKLQWFDFKLMLMTVEQPQNV NYGNCITGLEVLSFLLTTLVQSPAISSFKP LQRGIAACMTCGNTKVLRAVHSLLSRL MSIFPTEPSTSSVASKYEELECLYAAVGK VIYEGLJNYEKATNANPSQLFGDQGSW VTLAPGTLMLKSACSNNSPYIDRLISVF MRSLQKVMREHLPNQAAQSGSTEATSGT SELVMLSLELVKTRLAVMSMEMRKNFI QAIL
2784	10835	A	372	475	928	LVACASLPSPETLSPSPVPLTPKPSGLAIS LGLAFLSCPGLATPSPLTPKPGTAGPPQ PCPCGSLAQPTLYLSRRRLGGWRPSIQAQ MTPINRPESQTPVFLAHPHPWPTGG*VS PPSGPAQGGAASEVGGCLSIKETPCNV KKKKKK
2785	10836	A	3720	109	11749	ARRGERRRLVELMDPILFSGEANQPKRKM APVATQGATEVDQTTLMKKYLQFVAAL TDVNTPDETLLKMMHEVSENENGTTSSP QYSTFLHEHPIRVLTFLDQGEVQFLQKEP AQQLRKLVLEIHRPNTNEHLRPHTKNVL SVIMFRFLETENEENNEVILCILRJIELHKQFR PPITQEIHHLDFVKQIYKELPKVVNRYT ENPVQVIPENTVPPPEMVGMITIAVKVN EREDSETRTHSIPRGSLSLKVLAL
2786	10837	A	3721	106	11708	
2787	10838	A	3722	2	581	RRFERRPMRPHEVYTPPLVQPLSLVSP WKSQQHIFRVLNTWIDGRRKNSPLPTA HLRVWARRYAHVVLRKADIDLTKRAG ELTEDEVERVITISMQNPQROYKDPKTG FFEQDKKDVKDWKITAARVLAQWVWTTS SREPGRSLEERFRAJIKKCLRHFLQGLS CSEGQAHPRPTWAVGRHRGASAAGARR
2788	10839	A	3723	6	297	GIRPRKRQEAASEDADKGPKEPLEYGKA KLSQSCCECGKAQFRDHHLRHSLLH LKDARPFQCRYCVKSFTQNYDLLRHE RLHMKRRSKQALNSY
2789	10840	A	3724	201	403	
2790	10841	C	3725	78	422	
2791	10842	A	3726	591	966	EVLVTMALTRPSAASSKPQSPSPWQCPL DSSHWPSPVAHLPTSYSGREGDKHTLSK RELKELIQKGAPPPLASKLQDAEJARLM EDLADRKNKDQEAVNPFPKRYVTFFGGAFAP ESTIEGLKRVEK
2792	10843	A	3728	165	828	KEKARGRPKPLLLPITSATTAMGLTIISS LFSRLFGKQMRILMVGDLAAAGKATIL YKLKLGEIIVTTIPVTFGVKTIGYRNICF HSMGMLGGDPDRPLWKHYPQINTVQQLI FVVDNSDRERIQEVADELHKMILLVDEL RDPVLLLFANKQDULPNAMAISEMTDK LWLQLSLRNRTWYVQATCATQGTGLYEG LDWLSNELSKQNLNEIGYLJQGPWPQ
2793	10844	A	3729	191	1574	GVSRQDLTTRLFGFSSPQPLKKKLDAAWLS EDMNYYARFTAASARRNPSPRITMTDILS RGPKSMISLAGLGLPNPMPFKTAVITVE NGKTIQFGEEMMKRALQYSPSAGIPEILL SWLKQLQIKLHNPTIHYPPSQQGMDL VTGSQSQGLCKVFEMIINPGDNVLLDEP AYSGTLQSLHPLGNCNIINVADESQIVPD SLRDLRSRWKPEDAKNPQKNTPKFLYYC FQMGNNPTGNSLTSERKKKEIYELARKYD FLIEEDDPYVFLQFNKFRVPTFLSMDVDG RVIRADPSFSKLISSGLRIGFLTGPKPLIERV ILHQVSTLHPSTFQNQLMISQQLHEWGE GMFAHWDVDRVIDFYSNQKDAILAADK LTGLAEWHPVPAAGMFLWIKVKGINDV ELIERKRPLKMGVLMLPQNAFLRRJIAQ LPSPYLRAFSFSSASPVEQMDVAFQVLAQ LIKESL

2794	10845	A	373	2	643	PICLFSRPTLPRSRSKVSLIEGRGANMAA RWRFWCVSVMVALLIVCDVPSASAQ RKKEVMVLSKEVKSQLMEWTKRPRVIRM NGDKFRLVKAPPNRYSVIWMFTAQLQ LHRQCVCKOADEEFQILVANSWRYS SAFTNKDIFFAMVUDFDEGS(DMYFQML KH*ISAPNPSTFLQKGKPKRGIDTY\ELQ VRGFFQLRQISWPW\ADRTDVQ\
2795	10846	A	3730	2	454	RSFFFFCEVGSWVGSMRVMARLLSEG EQCIPITACAAFAQQPGGRPRRGLAGVGE GGPQCSWVNYYRCTLEFLVSLLTDLAR GRGNSATGPVAPADSKQLSCKT\IAVLS LSEAGFCNVVQGWVSTSWGSSSPVPQ FFPKLLEFTGQ
2796	10847	A	3731	379	640	DGVSLCYPGWNTVAOSQLTVGSISWAQ VILQTOQPRPRAVAPGRITVYRDRVSLCC PGWGLIVLGLKPPRVLGITGMGSPQPRP GI
2797	10848	A	3732	373	598	YPCPPE/RCAQRHGQACLLPSLERKCVIS LPPSPHQTAGPKGLGHGDALSLGIWP QTSPCEPTQTPKQSNQLVN
2798	10849	A	3733	2	444	
2799	10850	A	3734	151	485	SPRGHYQLLSSGRALADRYRRIYTAALN DRDOGGGSAGHPAS\RSENLENTVIIPI KLHSNPSAFNITYCNVRHCVLEWQKKEIS LAAASKNSVQSGESESDSDEEEESKEPPIN
2800	10851	A	3735	1	176	
2801	10852	A	3736	1	6570	
2802	10853	A	3737	114	14222	AAPVAAPGALFMPVPGSVAAGLGLG LPAADSPGHYQLLSSGRALADRYRRIYT AALNDRDQGGGSAGHPASRNKCKILNNK KLRRKQSKSKVKTRSKSENLENTVIIPI IKLHSNPSAFNITYCNVRHCVLEWQKKEIS LAAASKNSVQSGESESDSDEEEESKEPPIKL PKIEVGLCEVFFELIKETRFSHPSLCLRSL QALLNVLQGQQPVEVLQSEPPVELESLHQ LLEITVRSTGMNDSTQSLTALSCACL
2803	10854	A	3738	373	662	CRKNSCYQAQNFNLRIIPFSITKLINLFFH *NDSKST*SDSHLARSSQFCSLN*NY* *TAKSHDVVCITROHFPSLSESYIWHVKE KKNYPTAAAI
2804	10855	A	3739	29	658	LSVASLSFLPNASAEDTMSRLSRSLLWA ATCLGLVLCVLSADKNTTQHPNVTTLAPI SNVTSAVPTSLPLVTTPAETCEGRNSCV SCFNFSVNTT\CFW\ADCKDSESYCSHNS TVD\QCVGNITIDFCFSVSTA\TPV\IANS TAKTHSSSPPLLQLPQLLHQGTTNTNTV NSTSQPVRKSTFDAASFIGIVLVEIRC HTNRYIPDLKK
2805	10856	A	374	562	766	GKSIISRYPLYPFVIFVYFYFLETESCSQAQ GVQWRNLGLSQSPSSGSSNSPASAS*VA ETTGERHHAQ
2806	10857	A	3740	1	183	KKGLSPEQDIKFGSHIVSVWVGKTSMEVK MQMFQPAFVNPLIPESPEEEFLRQGEC TLLCL

2807	10858	A	3741	185	1548	LNQGPQNPKKQGNFHIIETSSSHAHNV RDKLREIVVKASTNWRDVHKAMEERKLL HSFLAKSODGLPPRMRMKDVIIEVILPLGS EPELREKYLTVQNTVRFGRILEDLDSLGR FLFCYMHNKIHSAKMSPLSIVTALVDKID MCKKSLSPEQDIKFSGHIVSWVGKTSME VKMQMFQQLHGDEFCPVLDAITFVMVAR DSENKGPAFVNPLIPSEPEEELFRQGEL NKGRRIAFSSTSLLKMAPSAEERTTIHE MPLSLUDPKTISFRSRVLPNSNGSVGWEN SKLKEFWI/CAHPGSRNIFNRILVGFGLR RKAYELAWATACSFVGGSRPFVGAVIDD IMFQNPVEVGSSLFLSSQVCFIQNYV QVRVNSEVALPLQEKPAIQPHPMFSHIF RHVGKKESESAPLVFPKTYGESPCCILD QXRAFPTPMSPGATLEKGPTLVEPLRT TIC
2808	10859	A	3743	2	286	TALORHSEPSKLTJFVGELAHGRFSAK/M GTLALGVYHGLPASHMELAQELMETCY QMNRRQMETGLSPEVHFNLYPQFGRRDV EVFKFADRIINLLR
2809	10860	A	3744	1	287	
2810	10861	A	3745	1	339	RPLLAFLREEQKMRPEIAGLKPNAPPVVL PAPQKADTDPENLPGMGM*PSGQPRVQL CPGS*SLRCPSQSKGLEGLP*LQRPEAPGL ALVFTSWTQGSSWPPRRLGGLDGKSV
2811	10862	A	3746	2	991	
2812	10863	A	3747	1	2296	FRVDGAAMAACEGRRSGALGSSQSDFL TPPVGGAPWAVATTVMYPPPPPPPHRD FISVTLFGESYDNSKSWRRRSCWKKWK QLSRQLQRNMILFLLAFLFCGLLFYINLA DHWKALAFRLEEEQKMRPEFAGLKPN PPVLPAPQKADTDPENLPEISSQKTQRHI QRGPHLQIRPPSQUDLKDTQEAEATKRQ EAPVDPREGEQDPQRTVISWRGAIEPEQ GTELPSSRAEVPPTKPLPLPARTQGTPVH LNRYQKGKVIDVLLHAWKGYRKFQAWGH DDLKPVRSRSFSEWFGLGLTLDALDTMW ILGLRKEFEEARKWVSKKLHFEKDVDVN LFESTIRILGGLLSAYHILSGDSSLFRKAE DFGNRLMPAFRTPSKIPYSVDVNIGTV HPPRWTSSTVVAEVTISQLEFRELSRLTG DKKFQEAIVEKVTQHIIHLSGKKDGLVLP LFHQPLTVGLFLTHLGWFTL GARADSYYE YLLKQWVQGGKQETQQLLEDYVVEIEGVR THLLRHSEPSKLTFTVGE LAHGRFSAKMD HLVCFPLGTLALGVYHGLPASHMELAQE LMETCYQMNRRQMETGLSPEVHFNLYP QPGRDVEVKPDRJNLLRPETVESLFY LYRVVTGDRKQYDQWGEIILQFSRFRV PSGGYSSINNVQDQPKPEPRDKMSESFFL GETLKYLFLLFSDDPNLLSDAYVFNTE AHPLPIWTPGLGWMAGVGTSGGQRHL AGSVAFSKGPRRHRQPPSGPGSELGFL LLVSALJRT
2813	10864	A	375	23	483	NGVLLSSRLKCGSAISAHCSCLLLGSNS PTSASQVAGITGAHHHTWANFCI/YFP*V EMGFHVVGQAGLELLTSDDP*SALASQS AGITG/GEHRLRLAVTYLNKHERGSFLSS CLPSAWWKWLCLCSFCWVPKCLALCHF KHYGRRKQVGHITSK
2814	10865	C	3753	150	584	MHPSCCCPCICPKFSTLVKSHVITASASSVP DSTCLRRQQSCEVVLWQDRVSFQARE LKAVINSAVQTSSCFIRHLPRSVSSAIAEG VTSVAISSLSSPSAGALLWSA PFFETQQT AVAPPASLETLGFLQPHLHTAGSF**
2815	10866	A	3754	292	483	

2816	10867	A	3755	84	316	GGKLINIKYLFYTSY*PLSFPWHFLAAS RAQQGEVVMRLACRLDPKTSQMAGEW LKYQLSTFLDVGSVNWKFSSLL
2817	10868	A	3756	423	1186	
2818	10869	A	3757	222	435	PCFLALAVCCVSKKGADHSSAPPADGD DEEMMATEVTPSAMAEELTDLGKCLMKH EDVCTALLITAFHSLAW
2819	10870	A	3758	1	936	MAEPFTKALDMGLDAEKSAILGLPQPLLE LNDSFVKTVLERMQRFFSTL*YEN/CECP WVGLF*CTEHYEALVSPILPGLFTYLH/C GEDEAADENPESQEMLEEQLVRMLTRE VMDLITVCCVSKKGADHSSAPPADGD EEMMATEVTPSAMAEELTDLGKCLMKHE VLSGTLLADAVTWFSTVSLKGLQMHGQ HDGCMASLVHLAGPIQEALPRYLEIRA VMEQIPEIJKDSDLQDFCKLNNPQLSKV ADKRRKDQFKRLIAGCIGKPLGEQPRKE VHKNLPSLFKKTKPMLTEVLDNDGGG LATIFEP
2820	10871	A	3759	30	3498	VAIVRHFGQLQILEHHVVKFRWNGMSRLEK VYLNNSVMELIANGTNNILEEENH/KDAL SRIVVEMIKREWVWQHWPDMILIEDTLSK QGETQTELVMFILLRLAEDVTFQTLLPPQ RRDIQQTLTQNMRERIFSFLNTLQENVN KYQQVKTDTSQESKAQANCRVGAALN TLAGYIDWVSMSSHITAENCKLLEILCLL NEQELQLGAAECLLIAVSRKGKLEDRK LMVLFQDVAMHVILSAQQTADGGGLVE K
2821	10872	A	376	129	365	NYTHLYANIFDITLEERGKFL/DKQNLSK LEOTGKAAQGFYDLLKLN**L*SLTTKK ASGRGPLLGSFQF*RKKMTPTL
2822	10873	A	3760	1	168	PLKRSRGCGNDGRTRPRTPRDPTVFTSNL KQTRMVHLTPVERVCRYCPVGQGKPG
2823	10874	A	3765	1	234	
2824	10875	A	3766	1	1697	LRAAGGGRTMPSFDEALQRVGEFGRFQ RRVFLLCLLTGVTFALFVGVVFGLQTOP DHYYWCRGPSAAALAAERCGWSPEEEWN RTPASRGPEPPERRGRQCQRYLLEAND SASATSALSCADPLAAPPNRSAFLVPCRG GWRYAQAHSITVSEFDLVCVNAWMLDL TQAIALNGLFTGAFILGYAADRYGRIVIY LLSCLGVGVTVGVVVAAFPNFPVVFVFRFL QGVFSLTWMTCYVIVTEIVGSKQRRIV GIVIQMFFTLGIIHPGIAYFIPNWQGIQLA ITLPSFLFLYYWEVPESPRWLJTRKKGD KALQIIRRACKNGKYLSSNSYEITVDE EASNPSFLDLVRTPQMRKCTLILMFAWF TSAVVYQGLVMRLCIIIGGNLYIYDFISGV VELPGALILLTIERLGRRLPFAASNIVAG VACLVTAFLPEGIAWLRTTVATLGRLGIT MAFEIVYLVNSELYPTLRFNFGVSLCSSL CDFGGHIAFPFLFRLAAVWLELPJIFGILA SICGLVMLLPETKGHALPETVDDVEKLG SPHSCKCRNKKTPVSRSHL
2825	10876	A	3767	103	370	IGPVGAISSSASGRRLAVALGTLSFSFISSE FFRFWLRVVGQVDSLSDGVVYCTYPLFIF LSALSLEDYSPETKVFK*LKTKHDSHMT GN

2826	10877	A	3768	97	1639	CPLQWICAINNISRQIYLTDDNPEAVAIKLNQATLQAGTPTSPGKQESSCPSNLKNSEMEMENDKIVPKATASLPEAEEELIAGTPQFDIVLPATEFLDQNRSRRTNPGEDEDESPEAEDQQQQEVNEILSGKCCCLPDSSLQQMFIVRFLGSMAVKTDTSTEVIEAMRQVLAARAIHNIFRMTESHMVTQSLSRAPGGRGGCGRSPSRLKCSCLPALKRAAGLPAQRLLSSAKGQTAASSSLSLTLLVVPDGETPPSRNRQTPHTGEFQLASGHQHQRQPKVDKSTKMRKQHORKAENSKNQNASPPPKDHNSLPAREQNWTENEEFTTERGFRSDRENGTKLENTLQDIIQENFHNLARQAQIJOQIORTPQRYSSRATPRHIIIRFTKVEMKEKMLRAAREKGQGVVTHKGKSIRLLADLSAETLQVRREWGPIFVNLLKEKNFQPISYPAKLSPISKGEIKFTDKQMLKDVVTTTPALUKELLKEALNMRKNQYQLPKQHTKM
2827	10878	A	3769	159	277	
2828	10879	A	377	67	224	
2829	10880	A	3770	1	474	HPPTTMALKRIKELNDLARDPAPQCSAGPVGDDMFHWQAVITMGPNDGPL/YOGGVFFLTIPFPQQITPFPKPKVAFTRIYHPNINHNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTNDREVKYNRIAREWTKYAM
2830	10881	A	3771	153	291	
2831	10882	A	3772	1	336	
2832	10883	A	3773	1	2336	MVRSWLTATSASQVQAILLPQOPPKTQLNFTVAJDFTASNGETRMSKEVGGNPLQPTSLHYMSPYQLSAYAMALKAVGEEIODYDSDKLFPAYGFGAKLPPREGISHQFPLNNNDIEDPNCAGIEGVLIESYFQSLRTVOLYGPTYFAPVINVQVASNSWSSVTLGTDSEPAVEVPQYVGIRLLVEGFTIKKPMAMCHRRMGRVPAVPLLTQRGSGEGKGDSGTPHTSLHTKAQJLSPHVLRHQGQVLRROHSKLVGTAKLSTTGTAKLRLTAKVFISSL*GPWHR*AGRDSCSAGR*AAEDSLRLFHSSVSHIWPKP*SQWLL*SSAVSWEAEAGELLEPGNRRLQ
2833	10884	A	3774	1015	1292	AGRRAWRMPYNPQHFGRPRRVDHRLSGVQDQPGQHGETPSLLKGPKIGWAWWRTPVIPATWEAEPGELLEPERRQRQLQVSQDRTTALQPGOE
2834	10885	A	3775	183	511	SOHFGRRLRWDACLRSQIQDQPGQHGETSLKLKIQKLARSLSGTCLQSQLLARLQENHFSLGGEGCSEPRSGHCTPAWARV/GHSVLKTNEQKNNSSTLHTKSHIWFQFPGH
2835	10886	A	3779	60	361	
2836	10887	A	378	436	829	NLREFPWAPCPVLIHYKFSSKLNLWIPVTL'GGSHLPSATLKKQIYGEKKLKAADCDLQITNAQTKEEYIIDDNALIPKNSSIVRRIPIGGVKSTSCKTYVISRTEPAMATTKAACNTKISHFYTLLPL
2837	10888	A	3780	2	616	ERTEKSDRAVRSGAPHDGSREAVFCACIWRWRVGGGRGRSCCTGRPSWGASSAVTRGPHVTRSCRATQPSLQSLASGYQLPAALSSAFAFGPGKSGAGSATAKCSGGAPRGENPEEKETARIQPKTKKMEQPYAIRMEEEDR/HLWGGGEGPSPARKIERGKAFTPCLNFRMGPYPNRPESMGDGDKWMEMDMGKYSMGGR



					SHDRLYYLNIGECAASA\MSA\AAH NAALLYHRWNH\TDMDQ\DGLYEK KTEL
2844	10895	A	379	74	378 GCTKDSNIYFIKEHPSVNNH\KRCCLISFL IRVM\*LKPQOVTINTPIRM\AKI\KAENSK CWQECGAATLMI\**V\*LPLKSWHFL KLSTCLFYDLA\PL
2845	10896	A	3790	52	264 QSFAGPPFFIPPPWGGRAGGFPGPGM/ PPP\PPPGTSSSSKJPKFGRPGGPPFPPL PKRVRPGDFFYV
2846	10897	A	3791	627	1524 SHGENCKCPSTGDYRKLIYHLKGCGQLR NKGSSPFTSIVSAAKVCGAASESPVS\KSL CLVADQDFSKAGQ\WVDF\IPGVSVVG GFSICSPRLL\OERVIELAVKY\TNHPPA LWVHNTCTLDCEVA\VRVGGEFF\DDP\OP ADASRNLV\IAGGVG\NPLLSILRHAAD LLEQANKRNGYEIGT\TI\TILQCKKYPAE LLFKN\ILDLVNE\PEKIA\CSLHV\TKTDY TNP\MRNSKPY\TEGTEKE\IRDHIS\KETL FYICGP\PPMTDFFSKQ\LENNH\VP\KEHICF EEVVVGRQRQK
2847	10898	A	3792	331	756 W\KRS\KYL\WLLRSHNSH\PS\SS\LT\PSLSPS A\EAEEBD\DL\QCLCV\KTT\QV\PR\HITS\L EV\KAG\PHCPTA\QL\IV\SPRTASV\AP\PC LLC\SP\LLMP\FA\PRTE\SHV\SS\SL\PARA T\LN\GR\KICL\DL\O\LLY\KK\I\KEH\LES
2848	10899	A	3793	3	402 HEET\OPE\FFIALSTE\LL\AL\PO\H\EL\RS\RV LR\A\OP\G\LL\FL\G\LL\LL\PL\VV\AF\RV\RAEA EED\GDL\O\CL\CV\KTT\QV\PR\H\I\H\Q\PG\R\* SKAG\PHCPTC\PT\*PR\KNG\RK\I\W\LG\T\W Q\AP\L\Q\K\*F\K\ET\W\ES\LAN
2849	10900	A	3794	2	146
2850	10901	A	3795	3	1034 SEPPART\PRRC\PRPSGP\AM\GLTV\SA\LS R\IFGK\KQMP\ILM\VG\LD\AA\GK\T\SH\ILY\KL K\LG\EV\TT\IP\T\IG\N\VE\Y\K\N\CF\TV\W D\VG\G\OD\K\IR\PL\W\R\H\I\Y\FO\N\TO\G\I\F\VV\D S\N\DR\RE\Y\Q\ES\A\DE\I\Q\K\ML\Q\ED\EL\RD\A V\LL\VF\SN\K\Q\DM\PN\AM\PV\SE\LT\DK\LG\I\L Q\H\LR\U\RT\W\Y\Y\Q\AH\I\LL\PT\G\T\G\F\V\T\W\Y L\DW\I\SH\EL\FK\AL\N\Q\W\G\RP\LD\A\RS\RC V\Q\SP\T\MS\Q\N\SP\T\PR\G\CP\PP\T\FS\LP\H\SP Q\A\SA\AP\CS\CL\H\VL\SV\GA\VE\PL\I\SG\H\I\R G\VL\FL\PL\AG\T\Y\RG\F\AG\PR\PP\SS\RG\G\A\G\I W\VS\FF\CF\G\CT\LG\Q\VG\RG\K\VR\AF\G\W C\Y\NL\DL\LE
2851	10902	A	3796	1536	1838 GLPOOTLKRI\Q\QV\LI\K\CL\AF\Y\FL\FFF\FF LR\W\SL\ALL\PL\I\CE\SG\VI\SA\H\N\RL\PL\G\L D\SL\AS\RS\RV\AG\MT\IT\G\T\CH\HA\Q\LI\FC\I\FS RD\G\VS\VL\ART\VV\W\IS

2852	10903	A	3797	2	740	GRVGQQSTSKVPKEGLLSSLHLLCSTAHYQKTAEMKSIYFVAGLFWMLVQGSWORSLQDTEAEKRSRFSASQADPLSDPDQMNEKDRIHSQGTTFSYDLSKYLADSRRAQDFLQWLMNTKRNRRNNAKRHDEFERHAEGTFTSDVSSYLEQAAKEFIAWLVKGRGRRDPFGEGRPLKLNAGRHAIDGSFDEMNILDNLPARIDFINWLURTKINTDREITYTSEIEFTNTILAHVGCLEMFKSW
2853	10904	C	3798	204	272	
2854	10905	A	3799	1	350	
2855	10906	A	38	3	203	HASDKMADKEKKKESILDLSSYIDKTTIRVKFQGGREGEGEGLPSVPPLK*KFQINPA TEMMRTHAEA
2856	10907	B	380	1	483	MQQARWLTPVIPALWEEAAGGSRGPSAAGILEFARGPLQTLFAWVSAAVAAEQRIFVNRECCCLIVPLVELSQRSTRPCESVCPYVNFAFOLQCGSGTGTVGSTTVLAECLKWLTTFQLVSIGLAAVAMDVNLNTGDVVVWLLNVAEEWNSFVNIPNDSL*
2857	10908	A	3800	1	397	QRPJ*PTKPIGQRVSKGHOPTRIRDFTQPLAAHETISRLVGSAGQVQYLDLKKDPSKLFNEERLIDKTKVTYKWLPESESFLASHASGHLYLNVSHPCASAPPOYSLLKQAWGFSFYAAKSKAPRNPLAKWAVGEPLNEFASPDGRLHACVSQDGLCLRVFHFDMSMLRGJLMSKVFGLLCVWCSPDGRVVVTGDEDLVTVWSFTEGRRVVARHGHHGKSWVNAAVAFDSLTTRAEEAATAGADGERSGEEEEEEPEAAGTGSAGGAPLSPLKAGSITYRFGSAGQDQFCFLWDLTEDVLYPHPLARTRLPGTGTTPPAASSRGEGEPGPGLPRSLRSNLPHPAGGGKAQGPGVAAEPGTPFSIGRATLTQERRDRGAEDEHKRVHSLGNISRGSSGSSGSGKEPPGPVPRSRLDPAKVLTALCPRIHEVPLLEPLVCKKIAQERTLVLFLEDCTACQEGLICTWPRPGKAFTDEETEAQTEGGSWPRSPSKSVVEGISSQPNQSPGTVV
2858	10909	A	3801	1	2066	MAAGGAEGGSGPGAAAMGDCAEIKSQFRTREGFYKLLPGDGAARRSGPSAQTVPVPQPPQPPGPASASGPGAAAGPASAPPAGPGPGPALPAVRLSLVRLGEPSAGAEGEPATPATGLGSGGDRVCFNGLGRELYTFYPPGCRRGSGQRWHTPLTPFLPPLKSIDLNPIDKRYKGQTQPTCHDFNQFTAATETISLLVFGASAGQVYLDLKKDTSKLFNEERLIDKTKVTYKWLPESESFLFLASHASGHLYLYNVSHPCASAPPOYSLLKQAWGFSFYAAKSKAPRNPLAKWAVGEPLNEFASPDGRLHACVSQDGLCLRVFHFDMSMLRGJLMSKVFGLLCVWCSPDGRVVVTGDEDLVTVWSFTEGRRVVARHGHHGKSWVNAAVAFDSLTTRAEEAATAGADGERSGEEEEEEPEAAGTGSAGGAPLSPLKAGSITYRFGSAGQDQFCFLWDLTEDVLYPHPLARTRLPGTGTTPPAASSRGEGEPGPGLPRSLRSNLPHPAGGGKAQGPGVAAEPGTPFSIGRATLTQERRDRGAEDEHKRVHSLGNISRGSSGSSGSGKEPPGPVPRSRLDPAKVLTALCPRIHEVPLLEPLVCKKIAQERTLVLFLEDCTACQEGLICTWPRPGKAFTDEETEAQTEGGSWPRSPSKSVVEGISSQPNQSPGTVV
2859	10910	A	3802	1	1155	
2860	10911	A	3803	285	1444	LLISPGPRLGAPSFPMAGLLASDFAFSPPPP GGGDGPGGGPEPGWVDPRTWLSFQRRP GGPGIGPGVGPGSEWVGIPCPPPYEF GGMAYCGPVQVGVLGVPOGGLETSQPEG EAGVGVESENSDGASPEPCTVTPGAVKL EKEKLEQNPEKWSQDIKALQKELQFAKL LKQKRITLGYTQADVGLTLGVLFKVF QTICRFEALQLSFKNMCKLRPPLQK EEADNNENLQEICKAETLWVQARKRKRTS IENRVRGNLENLFLQCPETPHWQQNSHIA QQLGLKHKHVVVRVWRWFCNRQQKGI RSSSDFAIQRDEFEAAGSPFVSGGPVPSLFP LPQGPHEFTGPVGYGSPIHTAALYSSVPPFPE GEAAPPVSVTILGJSPMHSN
2861	10912	A	3806	3	225	GQTQOHVHALRTTQHIIHWALGQHRVAL HTVEYVYLAJKRKEMDTGCVKWMELEYI VLSGISQSQEDMHCMIPFVSGP

2862	10913	A	3807	874	1444	QCARPMPPLRAFPVSSFRWARGMTIV ALMTVFFIMQLVGQVPAALWVIFGEDRF RWSATMIGSLALFGILHALQAFAVTGP ATKRFGEKQAJAGMGPNALGVVLLAFA TRGWMFAFPIMILLASGGIGMPALQAMW LAE*ITDTRANVKRLLLQNVCDLSNNM GLRFPFCVKSCGPTSVLTKRW
2863	10914	B	3808	1	1917	MGLSLAVFGILHALAQAFVTPATKRF GEKQAJIAHGGRRAGLRLAGVPTRGWM AFPIMILLASGGASCRVAGAHAVQAAALAR QGILLKEAEHVESQAETVLTDECOLLG YLDKGKRRKEKAGSLQWAYMAIARL GGFMDSKRTGIAWSGALCAGAAVLFVK TDLGALNELQDEAARLSWLATTGVPC AAVLDVVTEAGRDWLLGEVPQGDLLS SHLAPAEKVSIMADAMRRRLHTLDPATCP FDIQAKIIRERARTTRMEAGLKDLMRDR QDLIKRODEEDRSHDQDDEARRSPAAWW RAYSAIAATDNGRPLVFKTDLGAL NELQDEAARLSWLATTGVPCAAVLDDVV TEAGRDWLLGEVPQGDLLSSHLAPAEK VSIMADAMRRRLHTLDPATCPFDHQAKH RIERARTRMEAGLVDODDLDEEHQGLA PAELFARLKARMMPDGEDLVTTHGDAAC RISWWKMAAFLDSSTVAGWDIALATRDI AEELGGEWADRFLVLYVLLSGTGFEM TDQATPNLPSRDFDSTAFAFYLQRLGFCIVP RDAQWMILQRGDLMLEFAHGPGLDPLA SWFSCLRLDDLAEFYFROCKSVGIQETS SGYPRHAPELQEWOGTMAALVRFVKE PYFCGVT*
2864	10915	A	3809	1057	1905	
2865	10916	B	381	119	955	MVISRPRDPASASQSAGITGPALGAEG ERAHRHRHVRMIVTEGAPGGLSSGGHLRDA MDSEAGTDDGCASHVRVHRLKPSNI LVDESGNPECLRICDFGFAKQLRAENG LLMTPCYTANFVAPEVLKRQGQYDEGCDI WSLGILLYTMLAGYTFANGPSDTPEEIL TRIGSGKFTLSSGGNWNTVSETAKDVLVK MLHVDPHQLRATAKQVLQHPWVTKQDK LPQOSLHQDQLVKGAMAATYASLNS SKPTPLKPIESSIAQRVRKLPSTT*
2866	10917	A	3810	1	2928	
2867	10918	A	3811	630	1159	GAPWGQVPAALWVIVGIEDRFRWSATIMI GLSLAVFGILHALAQAFVTPATKRFGE KOAIAGMAAADALGYVLLAFAFTRGWM FPIMILLASGGIGMPALQAMLSRQVDD HOGQLOGSLAALTSLTSIIGPLVITAIAA SASTWNGLAWIVGAALYLVCLPALKRG AWSRAST
2868	10919	A	3812	1	3525	
2869	10920	A	3813	1	1606	MLMKAIKGVLGEQEKVPRRLMKVLKG VPGEQEKFVWEAREEGVSSRWTGSPMG CEQRVWMGDEQAMPCPLGLADGKLWRT FMGAADAERKEGRGMKVAPAPAVKK QEAKKVVNPLFEKRPKNFVGQDQIPKR DLTFRVKWPRTYIQLQHQRAFLYKRLKVP PAINQFTQALDRQTAQTLLELAHKYRPE TKQEKKQRLLAQAEEKTAGKGDISTKRL PVLQAGVNWEDKSALAKLVEGIRTNYN ERYNEIHHHWGGNVLGPESVARIQAKLKK ADGSLRLDFTVCKKAIVVSHPVQRKLP OQKRONRKKRQEVAQWGSGPCLSLVV GSEPATGSSCSETSFGFKSKVKEITNP OPMAATPTLEQGEAVAAHAEIPACSHG QVPAALWVIFGEDRFRWSATMIGLSSLAV FGILHALAQAFVTPATKRFGEKQAJAG MAADALGYVLLAFAFTRGWMFAFPIMILL ASGGIGMPALQAMLSRQVLTTSIIGPLVIT

					IIYAAASASTWNGLAWIVGAALYLVCLPAL RRGAWSRATST
2870	10921	A	3814	1701	1904
2871	10922	A	3815	1	427MAKMKRNQJIIPSVGEKLEQQQKPSYDARAF VTGPATKRFGEKQAIAGMATDALGYVL LAFATRGWMAPPIMILLASGGIGMPALQ AMLSRQLTSIIGPLIVTAIYAAASASTWNG LAWIVGAALYLVCLPALRRGAWSRATS T
2872	10923	A	3816	1	1629
2873	10924	A	3817	1	1013MMGLRNSYDVKERLKHQVRGGKAPKA VNSGKLLPPFRRLKELAGVEGMGNCYLG RTQPGRTRMQWSPMPLSVELRAGQRSSL RESKGKEIPEPRCAAVGKKEPEAKPPKV PRPMPLRAFNPVSSFRWARGMTIVAA MTVVFIMQLVGQVPAALWVIFGEDRFR WSATMIGLSLAVFGILHALAQAFVTGPA TKRFGKQAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPALQAMLSR QVDDDHQDQLOGSLAALTSLTSIIGPLIV TAYAAASASTWNGLAW!#*PGMIIISNPY REHPLSFHRYHYPHEQKSPLHGGISDQT GKNRP
2874	10925	A	3818	1	2634
2875	10926	A	3819	1328	2536
2876	10927	A	382	1	662LGSCTVTQTGVOWCNGHSSLRPTQQAII LJPLCSNCWDYKHEPLHLAYTQFCFLS FFPGGGGWSLALSPMLECGGVILAQCKL RLJGFTPFSCLSLPSWDHRHPPCLANF LNF/SVETGFNFLAQDGLDLLTSS/SP/PAS A/FP/KCWDYRRUDHRAQPMM*CNSDVNSL MLPQMPQV/AHQSPICGPRFRHTCRLG CPOTICTSHQLAANL/EV/TPMSSITH
2877	10928	A	3820	1	1594MSAAPCSTVSPIDHPRAECHTARDW QVAPPAAQSHDDDEEEDEEEKEEEEEEE ELLAGSPSYSPVTPCPCPLECPCLENGSRQ KQDKHPTGFKHKFQHAFSSPFLATITIS FWVAEHSRLLEKGKOQAGQSPHLOVGPGL VWQGYLWNREAGSSRDSHLNMPGGM AAGHSHSGLFSQGLWEQQQLKSTS FARCHPLVDPPEPFWALCEKTLCECAAGL ECACPALLEYARTCAQEGMVLYGWTDH SACSPVCAGMEYRQCVSPCARTCQSLH INEMCQERCVDGCSCEPEGQLLDEGLCVE STEPCVCHSGKRYPPGTSLSRDCNTCICR NSQWICSNEECPDREGHNSRQREVALSA QVGCHNVTALVSGQVPAALWVIFGED RFRWMSATMIGLSLAVFGILHALAQAFVT GPATKRFGEKQAIAGMAADALGYVLLA FATRGWMAPPIMILLASGGIGMPALQAM LSRQLTSIIGPLIVTAIYAAASASTWNGLA WIVGAALYLVCLPALRRGAWSRATST

2878	10929	A	3821	3	995	TSPTATGPALVCYRASLVALREEDTRSQ EYVPFRGNRDFAHVKKMGGGLLAMD VPEELGGAGLDYLAYIAAMEEISRGACAS TGIVMSVNNSLYLGPILKFGSKEQKQAW VTPFTSGDKIGCFALSGTRAFNPVSSFRW ARGMTIVAAALMTVFFIMQLVGQVPAAL WVIFGEDRPRWSATMIGLSLAVFGILHIA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGWMAFPIMILLASGGIG MPALQAMLSRQVDDDHQQLQGSLAA LTSLTSIIPLIVTAIYAAASASTWNGLAWI VGAALYLVCLPAIIRRGAWSRATST
2879	10930	A	3822	1	619	MLRAFNPVSSFRWARGMTIVAAALMTV FFIMQLVGQVPAALWVIFGEDRPRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGW MAPPIMILLASGGIGMPALQAMLSRQVD DDHQGQLQGSLAAATLTSIIPLIVTAIY AAASASTWNGLAWIVVGAALYLVCLPAUL RGAWSRATST
2880	10931	A	3823	1	565	MLRAFNPVSSFRWARGMTIVAAALMTV FFIMQLVGQVPAALWVIFGEDRPRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGW MAPPIMILLASGGIGMPALQAMLSRQLT SIQPLIVTAIYAAASASTWNGLAWIVVGA LYLVCLPAIIRRGAWSRATST
2881	10932	A	3824	1	934	MTMWVLHCAFTYFVSAWSKHGYAHAV TAKILYAGRIVAGITGATGAVAGAYIADI TDGEDRARHFGLMSACFGVGVMVAGPV AGGLGLAISLHAPFLAAAVLNGNLLLG CFLMQESHKGERRPPMLRAFNPVSSFRW ARGMTIVAAALMTVFFIMQLVGQVPAAL WVIFGEDRPRWSATMIGLSLAVFGILHIA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGWMAFPIMILLASGGIG MPALQAMLSRQILTSIIPLIVTAIYAAASA STWNGLAWIVVGAALYLVCLPAIIRRGAW SRATST
2882	10933	A	3825	657	7035	LRTCWHSDCQNTAAHDHSAAQGSGRHRK PCNRCAPGSQNWAVPPLPDISCRTGCAV RKDRRIAGPIO*NLKTAVGVRGPVYTKL CLMLGCLGRMRWRNSTGMLTTWL*MKLQVN GLOQGLIQSAGKDCDVQGLEHDMEEIN ARWNTLNKKVAQRIAQLOQEAALLHCGKF QDALEPLLSSLWADTEELIANQKPPSAEY KVVKAAQIQQEQKLLQRLDDRKATVDMQ QAEGGR

2883	10934	A	3826	140	2296	LFPRLLSLFTTPPHCSFSICFVICSRLLIK GSSLITG/CTQFRLSETKEITNPYAMRLYE SLCOYRKPDGSIGIVSLSKIDWIERYQLPQ SYQRMPDFLPLPAGALSLISKVTDTRAN DSMEGAETSGAALGTLANVVTSLANL SESLNNGDTSEIQPEDQSAEITRAFDTL AKALNTTIDSSSSPSLADGIDTSGGSIHV SRDOSTPHIEVEGPLLSLDTHTVTFKSIREDR NGRSQKTVHTEGDMNMNKKIVKQATV LTFTTALLAGGATQAFAKENNQKAYKE TYGVSHITRHDMLQIPKQQNEKYQVPO FDQSTIKNIESAKGLDVWDSWPLQNADG TVAEYNGYHVVFAFLAGSPKDADDTSY MFYQKVGDSNDSWKNAGRUVFKDSDF DANDPILKDQDQEWGSATFTSDGKIRL FYTDYSGKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFGDGKTYQNVQOFI DEGNYTSGDNHTRDPHYVEDKGHCKYL VFEANTGTENYQGEESLFNKAYGGG TNFFRKESQKLQOQSAKRDAELANGAL GIELNNNDYTLKKVMSPLITSNTVDEIE RANVFKMNGKWLFTDSRGSKMTIDGI NSNDIYMLGVVSNSLJGPYKPLNKTGLV LQMLDPNDVFTYSHIFAVPQAKGNV VITSYMTNRGFFEDKKATFAPSFLMNK GNKTSVVKNSSILEQQQLTVN
2884	10935	A	3827	1	2604	
2885	10936	C	3828	1	2076	MNMMNIKKIVKQATVLTFTITALLAGGAT QAFAKENNQKAYKETYGVSHITRHDML QIPKQQNEKYQVPOFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYNGYHVV ALAGSPKDKADDTSIYMLYQKVGDNSIDS WKNAGRUVFKDSDFDANDPILKDQTOQE WSGSGATFTSDGKIRLFYTDYSGKHYGKQ SLTTAOSIREDRNRSQKTVHTERDMIM NIKKIVKQATVLTFTITALLAGGATHAFA KENNQKAYKETYGVSHITRHDMLQIPKQ QQNEKYQVPOFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHVVFALAGS PKDADDTSIYMLYQKVGDNSIDSWKN GRUVFKDSDFDANDPILKDQTOEWSG ATFTSDGKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFGDG KTYQNVQQFIDEQNYTSGDNHTRDPH YVEDKGHKYLVFEANTGTENGVQGEES LFNKAYYGGGNTFRKESQKLQOQSACK RDAELANGALGIELNNNDYTLKKVMKPL ITSTNTVDEIEERANVFKMNGKWLFTDS RGSKMTIDGINSNDIYMLGVVSNSLJGP YKPLNKTGLVLMQMLDPNDVFTYSHF AVPQAKGNVNVITSYMTNRGFFEDKK TFAPSFLMNKGNKTSVVKNSSILEQQQL VN*
2886	10937	A	3829	1	3603	
2887	10938	A	383	110	784	AAAAASKVLM*TGGAAPOEQP*TGGVQ A*APGSVA/AEGASVEGPGFGDTPAHAQ GLSPTRSHGQGGAGRASAHSDPPIGGTG GWGFLKCGPGLCPERGKDGDASAVPR GPyAAEKGWALRGLGGVAAPGPPSR AQAQPSGLHTGPNARAPWPIPQGGGL RDRQAG*VSSWTGSTEPAHTAHRAPG HGGKGGSPQPHQPPQIPTTHTRMHS CRITAA

2888	10939	A	3830	2455	3151	DRRCPIFCLLPPGIRFILLFGSSLRQGPFIL FFFFLFFFFPFIFFLILSGSFFFFLSPVLLLL HFFPLSLFPACILLLHLLLLLQVLGAQLQ RCLHA/ASPTWCRGRGR/VLAGSRGPGA TEGPWTAEGGRGRNLLARWRRRRRQRO RPLGLKGLWKRQRRAGWGGGGSGA ETRRAA/AVRRAAGGRAVQAVAGALRG SSIPGSPPPHQOSAADQPCRPREGNPLIRR RLP
2889	10940	A	3831	1	2376	MKLMLMETLNQCNINAHEMTKAIAIAQFND DSPEAKRKITRWRIGEADLVLGVSSQAIR DAEKAGRPLHPDMEIIRGRVREVGTYIE QINHMRDVFGTLLRRAEDVFPVIGVAA HKGVVKTSVSVHLLAQDLALKLRLVLL VEGNDPQGTASMYHGWWPDHIIHAEDT LLPFYLGKEDDVYIAKPTCWPGLDIIPS CLAHRIETELMGKFDGKLPLTPHLLML RLAJETVAHDYD*FVOLYNQHVQPV/L GISISGCSRPAFSASLIA*EETPTKSAASP JLQRVIFLASFGLSSNLCAMIAFVIA
2890	10941	A	3832	1289	3109	ETPYVSLYAFWLFSFAKA*VAPPSGSFPT VSSSDSWLGLSLVPTYLIAART/PELIFVVRQ QVLDVERGAAACG*FLPRLVG*VPDLDA VGLYSTAPI*G/AIPGGQ*GILRMSEAQQ VPAGGSGLSTTVRLTWACLLPSLSTMCSS *QPCWSRAARMVSSLPSLSTFMCSL SWICFRNFIQVQVMG*PVVLPNNSSTDSP ARTFWSSGNWMI*GGIAAFGVGLGAGFF FTVAS/PLSS*HGRKRALGPPGFHLWGLG VLTGWSIHDLAGALRLASVILGVYTLV* ASVLRQCLLDGDIQSEPSWERMMLV VLMVPPFSVQMMIVAGSEDWTWHVSSSF LPSAT*TSCSFCLKAGA/VPWLSLFLSLSV VPAWPLLQFTSFLTSFLSSLLADFRFSSG LALPMGFRVSAGLALPIGFRVSAGLALP TGFKGPEGCALLRGLELSTA/AFRVSAL LLPSAGNFLLPSTERKSGVAGFGGGTF SGTGVLEVPLARTERKSTCWGLCTFLS SSDTVFGFTCRCRRLARKSICISAGISFRSS DRVFLTFFPRRSRKKSCSTSCWRIASSV CCLVSTRFLSTPRTSSPSSSSSSQPCPLAGQ PGLRDP
2891	10942	A	3833	1	2968	MTVAALMTVFFIMOLVGQVPAALWVIF GEDFRWSATMIGLSSLAVFGILHALAQQA FVTGPATKRFGEKQAHIAAGMAADALGYV LLAFATRGWMAFPIMILLASGGIGMPAL QAMLSROPNFDHWTAADRIGDLCRLGEH MERVGMDCRRRPICLPRVRVSACRMEPG HLDMNGSRRHLANGFTTPRIGANQFLRR TVNAQTNPWQNISIASAISSSRTRRISGSV GSWPRSGNAEVSLAHYVPDHLHRMILL ATL
2892	10943	A	3834	1	563	MLPRAFNPVSSFRWARGMTVAALMTV MPLQLGVGVPAAWVIFGEDFRWSAT MIGLSSLAVFGILHALAQAFVTGPATKRF GEKQAHIAAGMAADALGYVLLA/ATRGW MAFPIMILLASGGIGMPALQAMLSRQLT SIQPLIVTAIYAAASASTWNGLAWIVGAA LYLVCLPALARQAWSRATST
2893	10944	A	3835	850	1280	
2894	10945	A	3836	3	3971	VCTGSSTRHJVTFDGQNFKLTGSCSYL QNKEQDLEVILHNGACSPGARQGCMKSI EVKHSALSVELHSIDMEA/FRFLVGHGJYS ITTAFCFLVKLCVKFLCLVFLF/LEELPT NIKVTVNGLRVSPVYVGGNMEVN/VYGA IMHEVRFHNGHII/FTTPQNNFQLOLSP KTFASKTYGLC/GICDENGANDFMLRDG TVTTIDWKLTVQEWTVQRPQTCQPILE QCLVPDSSHCVQLLPLFAECHKV/LAPA

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2895	10946	A	3837	1838	4062 KRHHKKPFKKSTNPGAGFFEKINKIDRLLA RIJKKKREKNNQDAIKNDKGIDTTDITEM QTITREYKHLVVNKPKENLEEMDKFLK TYTLPLRNQEELESLNKPITGEIEAINSL PTKSPGPDPGFTAEFYQRVKEELLPFLK LFQSIKEGILPNSFYEASILIPKPGRTT KKENFRPISLMNDIANLNNILANQIQQHQH KLIJHDEVGFIGPMQGWFNIRKSINLIP HVNRNTDKNHMVISVDAEAIFDKIQQOH FMLKTNLKLGIDGTYLKIRPFDKPTADI ILNRQKLEALPLKTGTRQRCSLSPPLFNI VLEVLARAIRQEKEIKGJQLGKEEVKLSL FADDMIVYLENPVSAQNLLKLIGNFSKV SEYTINVQKSQSFLYTNRQTESQIMSEL PFTIASKRKYLGIOLTREVKDFKFCENYK PLDEIKENTNKWKNPWWSWVGRIDIVK MAILPKQMPDVNVSWDGEGPQLPFIDI SVAVATDKGLLTPHIDAAAKGQIQLAEADS VRSNIVLQCQARPPMLPRAFPNVPSSFRWA RGMTIVAAALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGSLAVFGILHALA QAFVTGPATKRFGEKQAIAGMAAADALG YVILAFATRGWMAFPIMILLASGGIGMP ALQAMLSROVDDDIQOGQLQGSLAALTS LTSIIGPLVTAIYAAASASTWNGLAWIVG AALYLVCLPAURRGAWRSATST
2896	10947	A	3838	346	777 GELYFQVCCQFWNRCGVVMKKMYYILF LSGEFCRCL*YSLMVVCISVGSVVISPLSF FIVS*FFSLFFFISLASSLSSILLISKNQLLD SLIP
2897	10948	A	3839	1	564 MPLRAFPNPVSSFRWARGMIVAAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGSLAVFGILHALAOFATVGPATKRF GEKQAIAGMAAADALGIVVLLAFATRGW MAPFIMILLASGGIGMPALQAMLSRQPN FDHWTAADRHDGLCRLGEHMERVGMDC RRPPIPCLPPRVASRCMEPGHLDLNGRSR HLANGFTPRIGANQFLRTVTVAQTNPW QNISSIASAIISSSRTRISGSVGSWPRSGNA EVSA
2898	10949	A	384	244	315 NPKGQKDREAPLSRSVVFLLKKIKR AFL LLHGRF*PSTAASASPASKSPRGSGKAL ASALFYIVQLTK
2899	10950	A	3840	3	1049 GSLQGCAASCARAFRLRTCCARSESGLAV RGTGVAFGENPRAAGTCQSFPFPVAP PPGVRWLWVLCPDRFTGAFLLRTTLALNV RAGDEGPRLRLRAPRVPSPRSAPLAPAP ASTPARRLPPVPMQAPGRGPLGLRLMMMP GRRGAIREPGGCGSCLGV/ALALLLILP ACCPVRAQNDTEPIVILEGKCLVVDCCSSP SADGAVTSSLGIVSRSGSAKVFASATRST NHEPSEMSNRTMTYIDVFSNIGHHFDL ASSIFVAPRKGIYFSFHVVKVYNRQTIQ VSLLULNGYVPVISAWAGYQDVTGEAASN GVLLLMEREDKVHLKLERGNLGMGGWK YSTSFGFLVFPL
2900	10951	A	3841	1	401 KGASSPQVPGPVAASTEALLQEAQCSG LSWVVVALPOVKQEKADTQDEWTPGTAV LTSPVLVPGCPSKAVIDPGLPSVKQEPDP EEDIKEENKDDASAKLAPEEEITFSLGGP RFRDTAV*LPRSKDLKKPR

2901	10952	C	3842	108	293	MNMIMACLOCFFVVALIILPFSNPAPPPLKSN FLYSGSWEEKMHQLSTLSPPLTTSKSS KYS*
2902	10953	A	3843	1	1490	MIREQKIQYHKYLAQRREEEKAQEKEFDR ILEEDAKKLAEKDKEELRLEKEARRLQT DEVMCTRLQVQEKSQYVKKLLAAIHP GDRIRSKVELTRYLGPACDLTLFDFKQGI LCYPAPKAHPVAVASKKRKKPSRPAKTR KRQVGPQSGEVRKEARPEDETAKADTDA PASFPAPGCCENCISFSGDGTQRQRQLKT LCKDCRAQRIAFNREQRMFQKPYTNRR QNRKCGGACAACLRRMDCGRGCDFFCDKP KFGGSNOKRQKCRWRQCLQFAMKRLLP SVWSESEDGAGSPPYRRRKPRSSARRH HLGPILKPTLATRTAQDHTQAPTQEA GGGFVLPLPPGTDLVFLREGASSPVQVPG PVAASTEALLQEACQCSGLSWVVALPQV KQEKAADTQDEWTPTGAVLTSPLVLPVPG SKAVDPGLPSVKQEPDPPEEDEKEENKDD SASKLAPEEEAGGAAGTPTV/VTSDSIYPE RQL*VSSWSYLHSCTERYPCGSI
2903	10954	A	3844	1	1758	MAEDWLDCPALGPWGKRREVFRKSGA TCGRSDTYYQSPITGDRIRSKVELTRYLG PACDLTLDFFKQGILCYPAPKAHPVAVA SKRKKKPSRPAKTRKRQVGPQSGEVRK APRDETKADTDTAPASFPAPGCCENCIS FSGDDGTQRQRQLKTLCDCRAQRIAFNRE QRMFKRVCGCECAACQVTEDCGACSTC LLOLPHDVASGLFCCKCERRRCLRIVERSR GCGVCRGCGTQEDCGHCPICLRRPRL RROWKCVRQRCLRGKHARRKGCCDSK MAARRRPGAOPLPPPPPSQSPEPTEPQPY T/PPAEPQVRGLCSLPTAEWWMWPLRUC CDKPKFGGSNQKRQKCRWRQCLQFAM KRLLPVWSESEDGAGSPPYRRRKPRSS ARRHHLGPTILKPTLATRTAQDHTQAPT KQEAGGGFVLPLPPGTDLVFLREGASSPV QVPGPVAASTEALLQAVDPLPSVKQEP PDPEEDEKEENKDDASKLAPEEEAGGA TPVTEIFSLGGTRFRDTAVWLPSLQGRH SREDGCKVWETEDTVEPTSTSWNPRG WPGETHVSLSPPASMMWVSCRSSWCP SOS
2904	10955	A	3845	1	1647	
2905	10956	A	3846	1	1821	MAEDWLDCPALGPWGKRREVFRKSGA TCGRSDTYYQSPITGDRIRSKVELTRYLG PACDLTLDFFKQGILCYPAPKAHPVAVA SKRKKKPSRPAKTRKRQVGPQSGEVRK APRDETKADTDTAPASFPAPGCCENCIS FSGDDGTQRQRQLKTLCDCRAQRIAFNRE QRMFKRVCGCECAACQVTEDCGACSTC CLLQLPHDVASGLFCCKCERRRCLRIVER SRGCGVCRGQFTQEDCGHCPICLRRP RPGRRQWKCVRQRCLRGKHARRKG CDSKMAARRRPGAOPLPPPPPSQSPEPT PHPRALAPSPPAEFTVYCVDEDELQPYTN RRQNRKCGACAACLRRNGCGRCDFFCD KPKFGGSNQKRQKCRWRQCLQFAMKR LLPSWVSESEDGAGSPPYRRRKPRSSAR RHLGPTILKPTLATRTAQDHTQAPTQ EAGGGFVLPLPPGTDLVFLREGASSPVQV QVPGPVAASTEALLQEACQCSGLSWVVALPQ VKEQEKAADTQDEWTPTGAVLTSPLVLPV CPSKAVDPGLPSVKQEPDPPEEDEKEENK DDASKLAPEEEAGGAAGTPTV/ETIFSLGG TRFRDTAVWLPRSKDLKKPGARKQ
2906	10957	A	3847	1	1723	

2907	10958	A	3848	1	1949	MAEDWLDCPALGPQWKRRREVFRKSGA TCGRSDTYYQSPTGDRIRSKVELTRYLG PACDLTLDFKQGILCYPAPKAHPVAVA SKRKPKSPRAKTRKRQVGPQSGEVREKE APRDETKADTDTAPASFPAPGCENCIGIS FSGDGTQRQLKTLCKDCRAQRNAPNRE QRMPFKVGCGECAACQVTEDCGACSTC LLOLPHDVASGLFCCKERRLRIVERSR GCGVCRGCQTCEDCGHCPICLRRPPLPGL RRQWKCVQRRLRHLAHLRLRRHQC QRRTPLAVAPPTGKHARRKGCGDSKMA ARRRPGAQPLPPPPPSQSEPETEPHIPAL APSPPAEFTIYCVDEDELQPYTNRQRNR KCGACAACLRRMDCGRCDPCCDKPKFG GSNQKROQCRWRQCLQFAMKRLLPV WSSESDGAGSPPPYRRKRPSSARRHHL GPTLKPTLATRTAQPDHTQAPTKQEAGG GFLVPPGHI*TLCFLREGASSPVQVPGP VASTEALLQEACQSGLSWVVVALPQVK QEKAQDQDEWTPGTAVLTSPVLPVCP KAVDPGLPSVKQEPDPPEEDEKEENKDD ASKLAPEEEFAGGAGTPVITEIFSLGTRF RDTAVWLPSLQGRHSGREDGCKVWETE DTEPTSTSWNP
2908	10959	A	3849	2	1682	LCDTPGRRGGGGRRGGGRGGRLQEGPSF MGPRLGEWRKJPAWLPNWLILLPVASM AEDWLYCPALGPWKRREFRFRSRATC GRLNTYYQSPTGDRILSKVELTRYLGPA CDLTLEDFKQGILCYPSPQRIPLGLPG KKRKPKSPRAKTRKRQVGPQSGEVREKE APRDETKADTDTAPASFPAPGCENCIGIS FSGDGTQRQLKTLCKDCRAQRNAPNRE QRMPFKVGCGECAACQVTEDCGACSTC LLOLPHDVASGLFCCKERRLRIVERSR GCGVCRGCQTCEDCGHCPICLRRPPLPGL RRQWKCVQRRLRKGKHARRKGCGDSK MAARRRPGAQPLPPPPPSQSEPETEPHPR ALAPSPPAEFTIYCVDEDELKRLLPVWS ESEDGAGSPPPYRRRKRPSSARRHHLCP TLKPTLATRTAQPDHTQAPTKQEAGG VLPPPGTDLVFLREGASSPVQVPGVAA STEALLQAVDPGLPSVKQEPDPPEEDEKE ENKDDASKLAPEEEFAGGAGTPVITEIF LGGTRFRDTAVWLPSKDLKKPGARKQ
2909	10960	A	385	933	1511	QVYRPSQTPHLALSPERAPGRLAGGRL APEARAPRGPSP/LPPIRVSSEKTRIVMVFH PGARRAGGTTPRPRGRDTGGAGPA/PTY STPLMSLHRARLESSSTGSSFPADSAKPV PLAVVSLDSR/GQWESRSSIIAVTN*AS SSSSSSSSSPSRVYPRFELHFDIQSTG Q/RITSRQHPR/DFRALF*LNS
2910	10961	A	3850	1	391	SPLNKVQLINELNEREVOLGVANKVSW HSEYKDSDAIFIQLGLPYDLTVKGDIICVF SQQRSTIVAVDNFNGIKIKGRTRVTDHVS NYRAPKDSEEIDDVTQLQEKGCGARTP SPSLESSEDEKPTKKP
2911	10962	A	3851	1	135	
2912	10963	A	3852	18	238	
2913	10964	A	3853	254	1424	

2914	10965	A	3854	8	1015	FLSAEREPPEEMNPLTKVKLNLNERVEQ LGWADKVKSWHSEYKDSA/WISLG/QLPY ELTEGDIICVFSQYGEIVINNLVRDKKT GKS/KGFCFLCYEDQRSTILAVDNFNGIKI KGRTIRVDHVS/NYRAPKDSED/DVT QLQEKGS GARPPSFTLSSESED EKPTKHH KKDKK/EKKKKKKEADREVQAECQF SSSPRRTVKEKDD/TGPKKHSSKNSER AQKSEPREGQKLPSRTAYSSGAEDLER ELKKEPKHEIKSSSRREAREEKTRIRD RGRSSDAHSSWYYWRS/EGRSYRSRS RKSHRHKRARRSRERE/SSNPSDRWRII
2915	10966	A	3855	299	374	
2916	10967	A	3856	1	993	
2917	10968	A	3857	3009	3583	LFCLFFFHLQPSHWCISEMVQLSDSLTD LLDKFSNSIEGLNSYNSIDKLNVNVDLVE CVKCNSSKDLKKSFKSPERPLFTPEEFRI FNRSIDAFKDFVVASETSDCVVSSTLSP KGKAKNPPGDSSLHWAAMALPALFLSLL GFAFGALYWKKRQPSLTRAVERNIQINEE DNEISMLQEKEREQEV
2918	10969	A	3859	880	1196	SPTRRGTPGTCLKPTACAGAA*FGCSA RTTCASAALPLSTCPSSCAA/PPAAAPV STRTPSPSPWAAAPSPSRRRTQASTPA STRNAPPSWCAPTPRPLAP
2919	10970	A	386	15	466	GVPNFIUNKNKTPSGWLQPLPRWL*AP VGACHYHGPLEARTEERAPCPKSQYTGEP EVLRUKNQGGTPRPGGGPGPSAPRGSF WST/PDSCPSITPHSLPAAR/PLPTPRHPA PSSPCTE/SAPSGPSSSQAPGIVYAPGJSQ VQRAAALR
2920	10971	A	3860	305	631	IEKISLEPKNRPSFQIPNLVGP/RLFVPGD FQSQV/NFLPKPKSSGPHPAAGKGQPFSS LPAWRSTGPERATGPGRPAACSALEAP SLRGPSGYSAQEPPRRPIASRI
2921	10972	A	3868	980	1498	VSLINLQVLRQSLEQVTE/FTSVFVKPSQ/ PPTPSRAMKWTLERLSLCLPAGRQHVL LPAUTPPCSVRGVHKGKSTVPPAAPSPTSA QSHQPAHSPPLSSPTTFLFEPIKDAGTHASLF SRDRHLPFTCHIRRPPQPCLSPPHCSQGS RTGRAVTAALRMAAAAAMTGNQSPTRI
2922	10973	A	3869	94	484	AAAALAAAASLLIREEDPOPGAGPSMAE TEASLKLREDFRMQNKS/SV/FILGASGETG RIVLKEILE/EQGLFSKVTLIGRRLKTDF EAYKNVNQEVGGGLKSLDDYASAFQGH DLGFCICLG/YHQEGKAAGG
2923	10974	A	387	50	481	FMEYLTLSFIHVLLQ*FIIHCFVHLFIHFF YALMKSLSIO*FIHLYSCF/ICDILISSCIYS FIYALVKSLSANSLTHSFIHFTLQ*FIVHLLT PLLICSFTHSSIH*PSHSLTFIQLQHLLFFHAL VSGFIWSE/TYLFCKINVFLDK
2924	10975	A	3870	302	1187	TALVPRDKDWOSPSD/LKTGICRCYFPSM AETEALSKLREDFRMQNKS/SV/FILGATVE TGRVLLKEILEQGLFSKVTLIGRRLKTDF EEAYKNVNQEVVDFEKLDDYASAFQGH HDVGFCLLGVTRKGAGABGFV/VRVDRD YVUKSAELEKAGGGKHFNLSSKGADK SSNFLYLVQVKGEVEAKVEELKFDRYSV FRPGVLLCDRQESRGEWLVRKFFGSLP DSWARGHSVPPVTVVRAMLNNVVVRPR DKQMLELLENKAIIHCPGGKRRIGSSQGH HTGRNGFYLFNLNTIDQIG
2925	10976	A	3871	71	335	PTRSTSSGSYMKRSGSCSP/MISDTSV LSMDNSRSSRAVVVKIETRDGKLVSES SDVLPK*TAAAAPPSPLLCRCPRAWEGG RYAW

2926	10977	A	3872	35	450	DIEECESMH*DDIRKHTEMENEFALIKKD MDEAYKNKVELESHLEGLTEEISFLTQL YEEEIRELHVPDLGHICGAVH*QOSLPGH EQHHR*GQGTVRGDRQPQPG*G*EHEIK YELQTLAWKHGMTRGAQRLRSPR
2927	10978	A	3873	2121	2371	LENQSPRHVYSLSLKSNDVML/DFAI FCPEATSEALDVVTWSAEGTEELAFG FLVLSVLSYCKLSTSLSVASSFVGDDWL
2928	10979	A	3874	29	3977	AEVAHARWERCFFSPPTFLWQGCFDRLL PGRRAFCFRRAGRLKRGRSYNSQLWLCV EKALAMDRSGFGEISSPVIREAEVTRTAR KQSAQKRVLLOAQSQDENFGNTTPRNQVI PRTPSSFRQFPTPKRSRSLRQPDISCLGT GGKSPRLTQSDFGPNGLSMVNLDDSN WAAAPSSQRSIGLFTNTEPHSITEDVISA VMLREDDPGEAAMSMSMPSD/FQSFLKHS SSTVFDLVEEYENICGSQVNILSKIV
2929	10980	A	3875	597	1088	GCQRQVVPSSWRPLQLRAKQDMAWQLL EYQELMNIKALDPIATYRKLLGEGEESQ LDSGMQNMSIHTKTGGYAGGLSSAYG DLTDPGLSYSLGSSFGSGAGSSPSRTSS RAVVVKIETRDGKLVSESSDVLPK*T AAAPSPSLPLRCPRAWEGGRYAG
2930	10981	A	3878	1	2474	MPGVSALSNSKPMLETTQMSITRGGMGKL LVRCTGEKAGPAPVPGGMEGPRSTTHV PLVPLLVLLLAPRQAAAQRCQACI CDNSRRHVACRYQNLTEVPDAIPELTQR LDLQGNLLKVIPAAFAQVQVPHLTHDLR HCEVELVAEGAFRGLGRLLNLNASNHL RELPQEALDGLSLRRLLELEGNAEELLRP GTGALGALATLNLAHNALYLPAMAF QGLLRVRWLRLSHNALSVLAPEALAGLP ARRLRLSHHNELQALPGVVLQSQARGLAR LELGNHPLTYAGEEDGLALPGLRELLLD GGALQALGPRAFAHCPRLHTLDRGNQ LDTLPPLQGPQGLRRLRQGNPLWCGCQ ARPLLEWLARARVRSDGACQGPRLRG EALDLRPRWDLRLRCPGDAAQEEELEERA VAGPRAPPGRPPRGGEERA VAPCPRAC VCVPESRHSSCEGCGLQAVPRGPPSDTQ LLDRRNHHFPSPVRAAFFGLGHVLSLHL QHCGIAELEAGALAGLGLRIYLYLSDNQ LAGLSAAALEGAPRLGYL VLERNNRFQV PQAALRALPSLFLSLHLDQDNAVDRALPGD LGRTRALR WGL/HLSGNRITEVSLGALGP ARELEKLHLDRNQLRV EPTGALEGLPAL LELQLSGNPRLALRDGAQPVGRSLQHL FLNSSGLEQVGTGHLAGL VQEAAQGH QRAFTQQAFAFSLPVGPGLQGLSLSHLQ NQLRALPALPSLSQLELIDLSSNPFHDC QLLPLHWRWLITGLNLRVGATCATPNA GQRVKAAA AVFEDCPGWAARKAKRTP ASRPSARRTPIQRKITVWIR
2931	10982	A	3879	1	531	ETPSSEPMEEEEDDLELFGGYDSFRSYN SSVGSESSSYLEESSEAENEDEREAGEL/H DLPAFAQWPDSLLGWQWT*ASCL/LR CVVSWVQGKPPSPRGRSAASPAPGATP PTPRKPVSVLGYRENHRPKPKPKSCTRLP GLPKLEPSSTLKGQDWSQMGHQDKTL WSWASTGGSS

2932	10983	A	388	119	1533	KKMNLAEICDANKKGREYALLGNYDSS MVYYQGVMQQDSRDIQAQSQRSQLSK GKWPTRFGQELLEEEYEQVKSIVKHFKK VFKIDKPSQISPVSLSR*THEIPAIVWPTP VPAEHRRAPQJRR/RQSRSKTSEERNGRS RSPGTCRPSTSYIKE*NSLLQVGRTRIEPE GGDDKGKRKNMQDGASDGEPMKFDGAG YDKDLVEALERDIVSRNPSIHWDIADL EEAKKLLREAGVLPWMMPDFKGRIPR WKNDSQNLGKPYRSAQDDIGMNVGPL THGFSASAAPETTRQPLFLLLSLSKV KTFKGVLVMVGPPGTGKTMILAKAVATEC GTTTFNVSSTLTISKYRGSEKSLVRLFE MARFYSPTTIFADEUDSICSRGRTSDEHEA SERVKSELLIQMDGVGGALENDDPSKM VMVLAATNFPWDIIDEALRRRCFIPWVG FPDVQEKDTSVSPESCLTDWWWWGL FPDVQEKDTSVSPESCLTDWWWWGL
2933	10984	A	3880	143	606	NKYTDYCOLLKKSKGVDKGKTASSLP EGSQSISREHLPQASQWLPWACLLLWLP LL/HDEMQMQRKQLPGLRSRAHSARQVR W/PCREAAAGCRMQRQASHLKSPEGKFH GHFLNTRVGRAGGNPHRPGKKWLPLSS VYCNIEHCLWGAWC PKPNC
2934	10985	A	3881	253	514	
2935	10986	A	3882	950	1612	IIPILASVTPQPKQPAWKTGTYKGKPOVS ISITEVKSMQYDKOGIADTWQVGVFT TCKCDLEGIMPNTISLTLTNGSPQDIL VHPCVTSLDSAILTSSIDAMDSAFSGP YKFFPTTPLESFNLCFYTQSVIDDQPSKL LLNDGIGELMGFNWSNRSCQVGNSNOY AYCMYAAQDQRTWRRGAWTISKYRNKN ALYTFVKRFSHLRKQREKPNYP
2936	10987	B	3886	146	326	MDESAFFPLCRTLGRVDSDDPGLIPGCAS GPLAVPESEQKVHERKSLHWDLGTLVSL VRAQX*
2937	10988	A	3887	575	828	CYPKVGKPKIPKGEGEAPGAREKCNFAAE KRGЛИPHGRKCLPISPCPTGTRQWPCCSS SGCASADTCTPRGALGAQKPIRESNF
2938	10989	A	3888	3	267	AMVGGGGVGGGLLENANPLIYQRSGER PVTAEEDEQVPDSIDAREIFDLIRS*AW PLTPQPAYWYPGPSSCQGCYRCFLESLT MRN
2939	10990	A	3889	1	942	
2940	10991	A	389	293	805	KARDKSPFLGDLCKDTGQQSLLQCRFF PFLGTKISCFQNVHWSWQTITSDGLSAGDG GFGPKYQ/RSRGQIPSGLNSLPLNSSESSDL LPTPHPLQLSQGLGSQVAQIDDVKAPPP PAEPQPKRLRSPPRPLLGAIJESVAVSRSLP SGPTGTDAL*WLSVQKPPTRTHGNE
2941	10992	A	3890	3	470	AMVGGGGVGGGLLENANPLIYQRSGER PVTAEEDEQVPDSIDAREIFDIRRCWAR AGGGRLRWGE*YRAAGGAASQQGVP GRGF*VGKAESLFLHFQJLIRFLNDPE HSLTLEELNVVEQVRVQVQSDPESTVAVA FPTTISHWSMGTIIGVC
2942	10993	A	3891	2	604	ARSHRISGGSAMVGGGVGGGGLLEN ANPLIYQRGEVRPTVATAGEEDEQVPDSIDA REVFDLRSHQMTPEHPLTLEELNVVE QVRVQVSDPESTVAVGFPKPIHSGTCR HGPPLIGLSIKVKLLRSLPSAFSRWDVA HLLPGDPLPQEHAVEQATLQIKEA G WAT ALGRTHHLLLEVVMQCLSPAPGTWAFV PLSLA
2943	10994	A	3892	73	204	

2944	10995	A	3893	1	846	QGANMPRYAQL\VMGPAGIVKSTYCAT MVQHCEALNRSVQVNVNLDPAAQHFNYSV VMADIREIEVDDVMEEDDSLSRFGPNGL VFCMEYFANNFDWLENCLGHVVEDD YIL FDCPGQIVGVVTLTWPVUMQQLVPALEQ WEFRVCGVFLVDSQFMV\DHRSRFSGH\A AALSAMISLEIPQVNIMT\KMDLSSKKA KKEIEKFLDPDMSLLEDSTSDLRKA SRKLDLKA IMWDLIGWTYSLVRF/JPYD QSDEESMNIVLQHIIQFAIQYQ\EDLEFKR NPKERE
2945	10996	A	3896	1	1319	MDYGLLCGQQQLVPOVEPVIRGHELSV HHILYQCSNNFNDSVLESQIECYHPNM PDAFLTCETVIAWAIGEGFSYPPVIGL SLOTPLDPHYVLLLEVHYDNPTYEEVLD JEKYKYKVLASDEGLLGHNMAVGFTW WKGLDNGSLRLFYTMDIRKYDAGVIEA GLWVSLFHTPPGMPPEFOSEGHCTCLEC EALAEA <sup>K</sup> PSGIVHVF FVAVLHAAHLAGRGIRL RHFKGKEMKL LAYDDDFDNFQEFQY LKEEQTILPGDNLITECRYNTKDRAEMT WGGLSTRSEMCLSYLLYYPRLNTRCASI PDIMEQLQFIVGKEIYRPVTTWPFIIKSPK QYKLNLSFMDAMNKF WTKKEGFLGSFNK LVLSLPVNVRCSKTIDNAEWSI0QMTAL PPDIERPYKA EPLVCGTSSSSLHRDFSI LLVCLLLSCTL\STKSL
2946	10997	A	3897	1	394	
2947	10998	A	3898	1	150	
2948	10999	A	3899	708	911	
2949	11000	A	39	132	370	SNSPA*PSGEPGTIMG/CRPPCPVNFGILRK NGVPPCPGQGPKSPDLRTHPLGPQPK/G IPGHTICPGPLG/KKPWPPGRV
2950	11001	A	390	2	428	GLPGSTTASAAA AASASSDAPSFGOLG KPLRQTSFYGRFRHFLDII DPRTLFVTE RRLEA VQLLEDYK HGTLPGV TNEQL WSAQKIK/S GVYIPFT PITV VGLL PNTQLA STFWQWL LNHS HNAC CVNY ANRATK SPA
2951	11002	A	3900	1	1349	MAAGORRSSLRLGSQFICDPECOLSC LVGLLEVQKEEVIRAAEGWKRAAPAGLR PTNNSRQASEGRVVLAGNQSYQSRASP RPLARWKASANGRAPIAFPAAAVAGLG AGSGKRRRGW KMPVHSRGDKKETNH DEMEVDYAE NEGSS SEDEDETE SSVSED GDSSEMD DDED CERR MECL DEM SNL EK QFTDLK DOLY KERLSQV DAKLQEV VIVE RAPEH ULEP AGNLQEN MQI RKT VAGI YR ELCLES VKNK YECEI QASRQ HCESEK LKL YDTV QSELE KIR RLE EDR HSID ITSE W NDE LSR KRR KDP FW PD KK PG V V S Q P Y V Y ML Q D L I D E W T T K N A M A T L G P H I R V K T D P P V K L E K H L H S A I S E G R L Y Y D G E W Y I R Q T I C D K K D E C P T S A V I T T I N H D E W F W F K R P D G S K S K L Y I S Q L Q K G K Y S I T F I M I
2952	11003	A	3901	38	383	
2953	11004	A	3902	252	526	

2954	11005	A	3903	777	1719	LLTLTIPRCSVAQPLPTGGTSVWSALL ALHAAVVFPLFAGAAGCVATLHDAAM NPABEVVKQRMMQMYNPSYHRRVTDCCVRA VWQNEGAGAFYRSPYPTQLDHDVFPQAI HFMDLWNSCRSITLTPRSYNPDSHFFSG LCAGAVAAAATPLADVCCKLNTTPGVL GFLETHYRTVQGMSAFRTVVQVGGV TAYFRGVQAVRIVYQIPSTAIAWSVYEFF KYIHLKGQEEWRAKGVKLALNEPGV QDDTDASWSHSLSPGMLPPQVELKGE KGSLPTDFGVLTNTSCQPLLPPPLPQ KHVQOSTPQHL
2955	11006	A	3904	1	1788	MLQOGAAILEAEATKPSPDTKYTSALIFNFP ASTADLGKTKRPAVEEKETPNKTRAQSL FLLAKERQDPRPGLSALPLVKAAMIAIG GAAHSEGRRLPCCRPRPFTRSPRPSRLDA LQVQDOSDGAALFGQPQLQGRAGLSEL PCQTERGKKPQQRQLSNRLQTAFRRGPL GSQFQLRWSRCRGCGVNAARSPPGSAQR SRSRPLLGPWRPGSRGVIQLCESLKIA KGWVSOQDPSRQLKECGQASASTSPRTPY SQDLQHPKLEVAAADPRTGRGTREPAAL VERLEMLSGAGSVVDAVPLVVRRRRR RRRRHSAQRALAAAAMAAAASEPLDCQ RLCASLGVFSTAPSSAACRADIITDCVSGL AGEMEVPRRVLADOLTEEEQIAEKFEEAFS LFDKDGUDGTTTKEELGTVMRSLGQTQT EGEULQDMINEVYADGNGTIDFPVFLTM MARKMKDTSSEEINGESFRVFAKDGNG YISAELRHVMTNLGEKTTDLEVDEMI READIDGDGQVNEYEFVQMMTGKMED LTPQLPFSPPLEESNWNLNTLLQKEKK KKVHLFHSCFLYSKTECQKYLLVHTHQ NLHVLVGPVP
2956	11007	A	3905	1	351	GPPRPTPTLLKPIRGATARPPRSRF*PRS DIPPLSRVLVARPPRSPPLGPQLWIMGPRP RPIAPLARAPMGRPNRAWMILLPRRCF KLFEGNRRQCSSRGCHHGSGRAGDRP NLS
2957	11008	A	3906	3	345	SCRCCRKAGKGRPGEQTDRPTRQPTSNN ELSSHTTAYASNQPP*1TRAPPSTQVRP VPGPAGAVAVVPGALASVPSDRDSK TAQQSSEVGALPPHQDVTCIVARAAT
2958	11009	A	3907	3	387	RPLQTKGRKGQAGFGRSPARLPEPWVQ PREEH/WASVSPFSDRSKMAAQSAKPVK LKSSTKMSLNERFTNMILKNKQPTPVNIR ASMQQQQQLASARNRRLAQQMENRPSV QAAQLKLQKSLKQRLGKSN
2959	11010	A	3908	565	719	GRDVTPRSKPAPRWTSRSSPGLKRW CSRSWRSWERGPRA**SALGKSNIQLARL/ WPTHRGPQGGSNKRTRPTPYSREALPRE GLRRGRATENP*TGRDVTPRSKPAPRW SRSPNGLKKRWCWSRWSWRERGPRAW SVGSWRNRW
2960	11011	A	3909	299	557	ADGSADLDSQRSSNLSHHTTAYASNP/ LHLANPSPSTSSQLRFPVPAVAVPGAVG GSPREEHLASVFSRDSKMAAQVSSEK LC
2961	11012	A	391	3	297	
2962	11013	A	3910	1	420	
2963	11014	A	3911	2	437	
2964	11015	A	3912	10	250	
2965	11016	A	3913	2824	3156	SNEGVKGLSRQKAWTADYNFLGGNCH FSGYFDSDCSYSSYRRCRTCCDFCNSG RNCSCGPFWGLCCITLCSDF**SSFLRSSTW TPGLAIIPTRLLIT*TLLISWSTV
2966	11017	A	3914	1	70	
2967	11018	A	3915	42	140	

2968	11019	A	3916	4594	4848	HIYCE*SLYLFR*DLDDGDLDECELAR LRDLVYDLE
2969	11020	B	3917	565	1161	MYHGWWPDHLHIAEDTLLPFLGEGKDD VTYAIKPTCWGLDIPSCSLAHRIETELM GKFDEGKLPTDPHMLRLRAIETVADHYD VIVIDSAPNLGIGTINVVCAADVLIVPTPA ELFDYTSALQFFDMLRDLLKVNVDLKGF PDVRLLTKYNSNSGSQSPWMEEQRDA WGSMLKVNVRETDEVGKDLHALLVR I.*
2970	11021	A	3918	3	226	LSVLFCFCFGVESNFNFYVYSSCVCVMATS QTDFICMHTYSLIEMIVIHYNLEFF*ISKM ATIAVLGFRLDIYHV
2971	11022	A	3919	1469	2806	CGSPFPATSSFFALSGHVLFAKLCMVAP KLRSWMYAVYGAIAVMGTGWPWYLL LLGHCVGLYVASLGLQWPWLCLGLGLAS LASFKMDPLISWQSFGFVTGTFDQLQEVLF HGGSSFTVLRCTSFALESCAHPDRHYSL ADLLKYNFYLPFFFFGIPMTFDRPHAQVS QVEPVRRREGELWHIRAGQAGLSVVAIMA VDIFHHFFYYTIPSDLKFAANRLPDSALAG LAYSNLVYDWVKAAVLFVGVVNTVACL DHLDPPQPKCITALYVFAETHFDRGIND WLCKYVYVNHIGGEHSAVIPELAATVAT FAINTLWLGPDCDIVYLWSFLNCGPDTL KLWVVPKTQKWWGPKHEIEGLLCQVQ MSRRVRALFGAHELSWPIMYNLVSLN SLFKTFLVARRLLLTGFPOTTLISLFVTY CGVQLVKERERTLALEEEQKQDKKKP
2972	11023	A	392	1	885	
2973	11024	B	3920	54	316	TIWDGEETVYCPKERSRAALKACYRGN RYPTDEKRRLATLTGLSLTQVSNWFKN RRQRDRITGAGGGAPCRKRKLPPQPCVW QPHRDG*
2974	11025	A	3921	1	2219	MATLPAEPSSAGPAAGGEAVAAAAATIE EEEEARQLLQTLQAAEAEAAAAAGAGA GAAAGAEGPFGSPGVGSPPEAASEPPT GLRFSPEQVACVCEAALLQAGHAGRLSR FLGRFLPAEERLRSGDPVLRARALVAFOR GEYAEYLRLLESRPFPAAHHAFQLDLYL RARYHEAERARGRALGAVIDKYLRLKFE PLPKTIWDGEETVYCPKERSRAALKACY RGNRYPTDEKRRLATLTGLSLTQVSNWFKN FKNRRQRDRTGAGGGAPCKSESDGNPT TEDESSRSPEDERGAAPVSAEAAAQGSI FLAGTGPAPPCCPAPSSILVNNGSFLAASGSP AVLLNNGPVIIINGLALGEASSLGPLLLTG GGGAPPQPSQGASETKTSVLDPOTG EVRLREAQSEAPETKGQVAAPGPALGE EVLGPLAQVPGPPTAATFLPPGPVPAV AAPQVVPPLSPPGVPPTGLSPTSPLLNLPQ VVFISQVVTLPQAVGPQLOLLAAGPGSPV KVAAAAAGPANVHILNSGVGVTAQLOLPS ATAPGNFLANPVSGSPIVTGVVALQOGKI ILTATFTSMLVSQVLPAPGGLALPLKPE TAISVPEGGLPVAESPALPEAHALGTLSA QQPPFAAATTSSTSLSFSPDSPGLPNFPP PPPEGLMLSPAIAVWPWSAGLELSAGTEG LLEAFKGLGTQAPHTVRLRDPDPEGILL LGATAGGEVDEGLEAEAKVLTQLQSVP VEEPTEL
2975	11026	A	3922	185	478	VSDTLLWALAGLAAGRWAGGCQTLGLQ GVVQQLGLLNGPRAAGAAPLSLGNLHPP SAARWHPS*ASHTGTGQSLSVIVEPHN PTSSGG*RPGTAGRSQ

2976	11027A	3923	74	593	RGWVMWVDEFQPALVSPYERQLNLDA SVQHLEDGDGKRRSSSSPRSRINKKA LDNSLQPKSLAASSPPCSCOPSCPEEK QGVKPHGPGRGLSASGVPGQPWPQ GG/WWGAAGRVAEPRTESRPVSAGT SSRSPSPSTNGFRQPPHPSARPSPRAAPGQR GWAGDRR
2977	11028A	3927	1	2936	MALMETHGHLFLALLMFAFSTFEESVN YSSEWAFTDDIDOFKTKQVQDFRPNQK LKKSMHLPSLYFDAGEIQAQMROKSRAASH LHLFRAIRSAVTVMMSNPNTYLLPPPKH DFAAKWNEIYGNNLPLALYCLLCPEDK VAFFEVLEYMDRMVGYKDWLVENAPG DEVPIGHSLTCFATADFDFLYVNLDDNHRR QKYLEKIWVITEEMYEYSKVRSGKQL LHNHQATNMIALTGAIVTGVDKGSKA NIWQAVV
2978	11029A	3928	2	512	
2979	11030A	3929	1	399	
2980	11031A	393	2	674	SCPLSCTSAAATGLWVKEGLRIVSSVLLGL SCPWGSPLEAELDLEGFLRWRTSFYGR FRHFLDIDPRTLFVTERRLREAVQLED YKHGTLRPGVTENEQI*SAQKISQAIYHP DTNEKIFMPFRMSGYIPFGTPIVGLLLP NQTLASTVFWQWLNSQINACVNYANR NATKPSAASKFIQGYLGAVISAVSIAVGL NVLVQKANKFTPATRLLIQRFVPPAV
2981	11032A	3930	1	1812	NRRTRPGCGVVTCYREFIQLRKLAEAL NVHDGCVNTICWNDTGEYILSGSDDTTL VISNPYSRKVLTITRSGRHANIFSAKFLPC TNDKQIVSCSGDGVIFYTNVEQDQAETN RQCQFTCHYGTYEIMTVPNDPYFLSC GEDGTWRWFDTRIKTSCTKEDCKDDILIN CRAATSVAICPPPYYLAVGICSDSSVRJ YDRURMLGLHELQGNYAARGVTTGICLP RFISLPHLNNKSCRTSILCYSEDGQELIV SYSSDVYILFDPKDDTARELKTPSAEER REELROPPVKRLRLRGDWSDTGPRARPE SERERDGEPEPMCPMLQRMMSDMLSR WFEEASEVQAQNRRGRRSRPRGTSQSD ISLTPVSPDLEVESETAMEVDTPAEOF LQPSSTSMSQAHAHTSSPKESPHSYSFC YFLPDSDQROSVEASGHHTHQSFLR GPEIALLRKRLQQLRLKKAECQQRQOELA AHTQQOPSTSDDQSSHEGSSQDPHASDPS SVVNKOGLSMSLDEQDNNNNEKLSPKP GTGEPVPLSLHYSTEGTTTISTIKLNFTDEW SSIASSSRGIIGSHCKSEQEEFVPPQSSVQ PPEGDS
2982	11033A	3931	1	1878	
2983	11034A	3932	2	202	
2984	11035A	3933	9	111	SRQAWHEASNYGPMKSGNFGGIURNMG GPyGGGNL
2985	11036A	3934	297	611	QWGLRFMNGVLSGGGLSVQTASPPSASR RHFPLSGVGDGELSHGGRCPAGVVKVR GGGNSYSLSKARCFGGHGVSSASVSSAGS RSS+ARLRSFPSPSLTGTGFGGR

2986	11037 A	3935	14	1276	KSGGTALAAVAAAPGPVRRCSSOSCFS SGSHYSARTSPVPRVRPRSSRSAAAGN RAEATESAMPKTLTVPILERKKRKEQF RKLFIGLGSFETTEESLRNYYEQWGKL DCVVVMRDLASKRSGFCFVTFHSIHGLE VDAALASRPIASINGEVVEQEKRAYAREE SGKPGAHFTVKKLFGGIKEDTEEHILR DYEYEGKIDTIEITDROSGKKGKRGFGFV FDHDPVDKIVLQKYHTINGHNAEVRK ALSRQEMQEVSQSSRGGRGGNFGPGDSR GGGGNFGPGPGNSFRGGSDFYGSGRGF GDGYNGYGGPGPGNFGGSPYGGGR GGYGGGGPGYGNQGGGYGGGYDNYYGG GNYGSQNYNDFGQNYQQPSNYGPMKS GNGFQGSRNMGPGYGGGNYGPGSGGGSG GGYGRSRY
2987	11038 A	3936	827	2064	RVRFPVCGGAPRVRVVSRAAAVLTTAGP RVRFPVCGGAPRVRVVSRAAAVLTTAGP WREKKKKQFRKLFGIIGLSFETTEESLRNYY YEQWGKLTDVCVVMRDPASKRSRGFGFV TISMAAFVDAAMAARPHSIDGRVVEPK RAVAREESGKPGAHFTVKKLFGGIKEDTEEH DTEEHHLRDYFEEYKIDTIEITDROSGSG KKGKRGFGFVTFDDHDHPVDKLDRRKHHTI NGHNAEVRKALSRQFMQEVSQSSRGGRG GNPQGDSRGGGNGFPGPGNSFRGGSDFYGS GYSGGRGFDDGYNGYGGGGPGGGNFQGS PGYGGGRGGYGGGGPGYGNQGGGYGG GYDNYGGGNYGSQNYNDFGQNYQQPSNYGPM SYGPMKSGNFGCWRVNMGPGYGGGNYGPG GPGGSGGGVYGGSPILKLLPICHGAS LV
2988	11039 A	3937	36	320	GPGRWVVVDETMWLELEQYQPVSPFLQ PFEIRHLRDLPKGTGCVNMCPONKSC PRGKRCQSNGCCHVCKVVPETSKSQLR CSQGKMTHWSSL
2989	11040 A	3938	3	713	
2990	11041 A	3939	1	519	
2991	11042 A	394	485	1044	HLVPLCPCNLSKAGRCTVQERLLVICCS RSWRWRNLMRWLNYAPVSSGHRHSS LARETSVPPDMRKGPAAGAEKGKAVGC KGVSQETAEAYWKRTSSLEPTWILLTN KPMFQGRNLFAPITRHTPEALWLPTC HRGSPALHIEAFMPAALPSGTASCELPGH WPYQLSGVLCAPWVKEA
2992	11043 A	3940	1	966	MGHHLIMDKLVALAGGLYIYAIQHRHYATK CSVLKNDQVILVIGLFMIQNVIYRKHFA LSALFLQOQIELFAAIIHITTTVAERNH ITQRLAEQTIDSLKEWHNAIRKSLDY ALQAFEFVRGATDRCGPALSEALVRVL VLDANDNSPFLVYPLQNGSAFCTELVER AAEPGYLVTKVVAVDGDGSQNAWLSTY QLIKATEPGLFGVVAHNGEVRATARLL ERDVAKHRLVVLVKDNGEPPRSATATL QVLLVDFGSQPYLPLPRAAPAPAQAQADSL TVVLYVALASVSSLFLFSVLLFVAVRLC RRSRAAPVGRCVL
2993	11044 A	3941	1	2783	RJLSVDDFVELNVSSLVAVAEGIGYRDL DSNMKMKLGRHPNQRQVLAFILMVFLSQV RLEPIRYSVLEETESGSFVAHLAKDLGLG IGELASRSARVLSDDDKQRLQLDRQTGD LJIREKLDRREELCGPIEPVCVHLHQVVL MPVQFFQGELIQDNDHSPIPEREVL KILENSQPGTLFPLLIAEADLDVGSNGLQK YTISPNSHFHILTRNSHEGKYYPDVLQDK PLDREQPEFSLTLVALDGGSPRSGT
2994	11045 A	3942	383	703	NRITPTTSARINLSSLVPSAIDNGSMSMEDIN RTVSIQTPRONSIMKMTDKIRTIGIWERRPG VVVLTCLIMV*HLSASIANRLNLLRKLG

					RMVIFSHRLKVSSMKS A
2995	11046	A	3943	1887	3072 NFVMCVHGEPWLAGRTVVPVSTLSGPEL ALQLGKTPGLRYLFTSSTLTDFFIEIGR DAGLWGRRSRRLSGKPLLLTEFYRRH RCTKRKKICDCISANVWAVLKTVEAAGS DRPVQCLTTAVQRERDTQSLSVITAELE PVSSPHFIREAGQVCTGRSSKEREVQPVV QRFSNWRNCCDICELSPTSDGHPPS GPGLYSARKAIMQHYQARGMRDVTVTED IVIGNGVSELIVQAMQALLNSGDEMILVP ADPYPLWTAAVSLSSGKAVHLCDESS DWFPLDDIRAKITPRTRGIVINPNNPTG AVYSKELLMEIVEARQHNLIIFADEIYD KILYDDAEHHISIAPLADPLLTITFNGLSKT YRVAGFRGQWMVHFRFTTPLRTVQAI
2996	11047	A	3944	623	2587 SPRKGGKGKKAANRVLITGAPLDPLDS QSAVSHSVKEL/ENHTGVRLDRITREV VLT/ DAGQQLALRLERLLDELNSTLRLT GRMGQQLSGKVRVAASOTISAHLPQCI AESHRRYPDQFVLBDRPQWPWVMEISRQ GDVDFGIVIDPGPVGDLQCEAILESEPFLL CHRDASALAVEDYWPWQALQGAKLVLQ DYASGSRPLIDAALARNGIQANIVQEIIGH PATLFPMVAAIGISILPALALPLPESGL VVKRITPVVERQMLVRRKNRSLSTAEE ALWDVCNCIAQPFETTAITRCIGSVTVKLV LVPVGKSEFLAAQHKVVTTCNPAGDIAV VASVIGLICITLSKERFEPPTAAGEIVADT VQEHHVVEIHAIRRTVGAIRMQVEIKSGV TOAYLQGINENKLGLSGRDPDRPIGCLGTS KIYRILGKTVVCYPIFDSLSDYFMSQDVF LLIDDIKNALQFIKQYWKMHGRLFLVLI REDNIRGSRFNPILDMALAALKGGVVK VHVDRLOGPLENDLVVHVALLAESRQLQ VFLNTYGIOTQTQPQVEPIQWPQVELVK VILGAFGHEEEVINSPLSPRVIQNIYKKC NTIDEREAVIQQELVIHIGWIISNNPELFS GMLKIRIGLQNESCIVLQVSTIIPAT
2997	11048	A	3945	102	2392 RKQMNYSLKQLKVFVTVAAQEKSFSRAG ERIGLSQSAVSHSVKEL/ENHTGVRLDR TTRAVVLT/ DAGQQLALRLERLLDELNST LRLTGRMGQQLSGKVRVAASOTISAHLP PQCIASHRYPNQFVLHDRPQQVWME SIRQGDVDFGIVIDPGPVGDLQCEAILESE FLLFCHRDSALAVEDYWPWQALOGAKL VLDQYASGSRPLIDAALARNGIQANIVQ EIGHPATLFPMVAAIGISILPALALPLP ESGPLVVKRITPVVERQMLMLRVDLRLFAQK FQJGDRKJLRSNNNAVNVLPAATCGFFFF VCCWRFAYGCCSALLRIPPRLYSVFIIISL LYGFSRAHISSPGACWVFIHERPQGFMY GLYPHDQRWRINALLIGLVSIAPMFWKI LPIRGRYIAAWAVYPLIVWWLMLYGGF FALESYETRQWQGLTLIJIASVGIAGAL PWGILLALGRSSRSHMPIVRILSVIFEWWRG VPLITVLFMSSVMLPLFMAEGTSIDKLIR ALVGVLQFQSAYVAEVVRQGLQALPKG QYEAAESLALGYWKTQGLVILPQALKLE TVRQPTLAMEEINCHHNYVQKEQHFG EEIVYTRKGAVASARAGQHGUFGMSMGA SFIVRGLGNEESFCSCSHAGRVMMSRKT AKLFLSVEDQIRATAHVECRKDAEVIDE PMAYKDDIAVMAAQSDSLVEVITYLRLQV HSCRAGETGAVAPASDRGKGDDGNLRS NRGRRGAGVAAASALPARHRAGRPLC YR
2998	11049	A	3946	2	331

2999	11050	A	3947	3	116	
3000	11051	A	3948	3	162	
3001	11052	A	3949	181	804	RPLPRIGCCGPAGQVGEARSPrVSLCF ACPLRLLRAGGRALRRLRPGTPGVARP SYSSFTQGDWSWGEVDEEEGCDQVAR DLRAEFIGMGOWSIEPRKLSQLPPDRNGS PVLFDKURNGJFPGSRGQQEPLSRRWPQF VLSILCSLLFAILLALFLAJAYLIVKELHA ENLKNEDDVDTGLLGFWTLLIISLTAGL LLQFLGQ
3002	11053	A	395	901	1213	SQHFGPRWADHLSRGV*DQPGQHDET PSLKIQKLAGYSGEHL*SQLRRLRHEN CLNPMSGGCSEPRLHHCPTAW/VAEPS VGGVGGKEKNNTSMLQTRP
3003	11054	A	3950	1	149	
3004	11055	A	3951	1	1896	
3005	11056	A	3952	3	275	
3006	11057	A	3953	2	395	
3007	11058	A	3954	1	209	
3008	11059	A	3955	466	3315	EMVPRWAIYQGFQDCLVHASSRASGL WKLLNPCCRGLRCPDTRPLTSRWPNRDTR SASTQLGKQSLPPAPEADPVPFLPQEENE PPSPPLVSGIIDYNMPLTSTYLYKQMKLRV MNSQEQAQSSPTIQTERTHATQQLLTA QLTVLIPATOHQYVVLKKPPRPGQAEDIMSG GPTLEAAEFDDLIGKCLPDRPIAGSVRLG DRWNPRGSPPRRCRLHGCVPGSLER RPRDYPTLQLWLARRQDPARCGLAEHN DR
3009	11060	A	3956	11	755	ETHAPSGVWGLERPSPHADQEQIAGGQG QTAPAWEKPHSHPTPKSCGDQTKTTLHT ERREDKPKSFTRAGWGWEINLKGPPVTEG AGSPGSSHGAGLNDRDHPLOSPQGRRAI WPWORAPTHMLFSMTRQGSPGAAPGAQ PEISKLAGYKKQKKQRSCLRKKCHP/QE AGHRQRVAHSAGPGLQGEAAAGBEGRGE AFWLKARNSKYSSLGINIPPNKGAQGSC LGRVGCRRHDPHNSGLSAPPFRPMQPSAL
3010	11061	A	3957	175	559	VKROLRLLRSPWPDEPKPEGVKTENN DHINLKVAQODGSVBEQFKIKRHTPLSKL MKAYCEVROGLSMKQKIPDPDQGPVINE TDTPATVKGWKDERYQQLMVFQQARP GVYVKELECFLYSQNSVSF
3011	11062	A	3958	140	380	
3012	11063	A	3959	98	426	LITPSSAAALKGESVQWHLREAGQSLPR RLTCAGWNKRFILHWIDQLSG*TQTCILL VVFWVIATE*LGESPL*APIGGTQPW*F LIGAMKKHQETGENDHFNSPGPSE
3013	11064	A	396	110	1012	KTRGTYLLHCAAAWGRLETLKALVEL DVIDEALNFRERARDVAARYSQTECVB FLDWAGLNPGTATHDSDEEEAFLTRVW STGHNDSGVKQRMQKIEIQNATSNHF TCPSSILQRKKGV*FVGLLW*FRNVSTL LMKTFPLQARNSPPETPSGTITITQITGKIC RMYFWSYMESEGPPESERAEEFFSQEE NEEEAQEPEETGPKNPLLQPAUTGDVE GLQKEDPENPHEQAMQMLLEEDIVG RNLLYACMAGQSDVIRALAKYGVNLN EKTTRGDTLLHCAAAWGRLETL

3014	11065	A	3960	234	1050	ARTLKRRWKVRKTVGRKVOTMKILETLRISALLLWEEVLLGLKDKEGVYTFWFND CISGRLRGGLIELAMRGRIVYLEPRTMRK KRLLDRVRVLLKSDSPTGDVYWDTELKH IKATEPTETVQTWIELL.TGETWNPFPKLQY QLRNVRERIAKLNVEKGILTEONFLLF DMTTPVNTTEKQRLVKKLQDSVLER WVNDPQRMMDKRTLALLVLAHSSDVLEN VFSSLTDDKYDVAMNRAKDLVELDPEV EGTKPSATEMIWAVALAIPNKS
3015	11066	A	3961	1	1074	MEPIGARLSLEAPGPAPFREAPPAAELPA PVPCVQGGGDGGGASETPSPDAAQLCD RPLSPKEE/CRPPGAGGAAGM/PPPLPRL LFLARRPHL/VRPSSCSSSSNRRRHWA A/SGAEDAOQGPBGGCCAKCKKRVQFAD TLGLSLASVKHPSAEAEPPVQPPAVLSLR SPFMRAEDELQOLGGLLAAAAVAAPLSPAP PSRLRPLFQLPGPSAAERLQQRVCLER VQCSTASGAEVKGSGRVLSCPGRAVTV RYTTEWRSFLDVPAELOPEPLEPQOPEA PSGASEPGSGDAKKPEGAECFHFLSCLPP GLOPEDEEDADERGVAVHFACVYRCAQ GEYWDNNAGANYTTRYARPADAL
3016	11067	A	3962	42	424	
3017	11068	A	3963	3	899	PPNVPFSPLSPFPAAEGPGRSRWREGG YLSQSRSRGLSQEEAASRSAGGMAGAPD ERRGRPAAGEQLQQHQVSCQVPPVERLA QGNPQQGFFSFTSNSQCKQLRILKLTLET NPVVKLLDAMKHSGCAVNKDRHFSCE DCNGNVSGGFADASTSQFLCQNNIHQA HMNRVVTHELIHAFDHCRAHVWDWFTNI RHLACSEVRAANLSDGCSL'VNEIFRVIQ FLKHPPOOTCVRDRATLSILAVRNISKE VAKKAVDEVFESCFNDHEPFGRIPWHNKT YAYAHDRDFENRGRYYSNI
3018	11069	C	3964	165	347	
3019	11070	A	3965	871	1194	EFVFFFETEFSFTQLECSGHNLGLHCN LHLPGSNAPASASRVARITGAHHJHARLJ FVFLVEMGFHQTGWAMLVULKLPDQVIC PPWPOPSAGIYRHEPQHPGRK
3020	11071	C	3966	54	197	MVLSSNNFOKAIKLALLKJYFKISFQLFPF YVHKIGCRHSHFAMNV\$**
3021	11072	A	3967	263	742	SRSRHDHLYTVVVPSPWNFFRALRISNSK NEMFSMSFLPREMKKKKLPSDSDGLEAL EGKDKEKESTVHIEHTQNTSKNVAAVQP MKR/GQKSCKMKMKMEKY*DQDEEDREL IMKLLGSAGSNKEEKGGKKKGKTKDE PVKKQPOKPRGGQRVSDNPKKE
3022	11073	A	3968	189	1393	STDFDYNSTIDGGDPTSDEDEKEEJETP VEVELMTQVQDQEDITLQSGRDELNEELI QEESEDEGEYEVEV/REKDQDQSVGEMKD EGEETLNYPDTVTIDLQLHQPQRQSIQKLA SKEESSNSSDSKSQSRRHLSAKERREM KKKLPDSGDLALELEGKDKKEKESTVHIE THQNTSKNVAAVQPMMKQRQKSCKMKKM KEK YKDQDEEDRELIMKLLGSAGSNKEE KGKKGKKGKTKDEPVKKQOPQKPRGGQ RVSNDNKKETPFLLEVTHELQDFC/AVDD P/HILDQGKEPDLDQQGNEENLFDSFDQ GQPHPDEVJ/LGFAPICAPYTTMTNYKY KVKLTPGVQKKGKAAKTALNSFMHSIKE ATAREKDFRSVKDFTLSRNQKVKSV CTQSSERKKEIAEMKF
3023	11074	A	3969	192	1510	
3024	11075	A	3971	247	496	
3025	11076	A	3970	68	382	MSVPDEEERLLRLTQRWPRASKFLSSGC AATVAELGLTRLTPGPGPVARAALGEE TAGAASRPGSQAQSRSPPSHARLAEVAV

					EARPRGGRRRDLEVSTAFSF
3026	11077 A	3971	3	1451	GAVRTWGRGFQTEKCQASLLNFVNWPPT TAQVITIEAEPTKVSKGKDVLLLVHNL,PQ NLAGIYWKGQMKDLYHYITSYVVDGQ IIYGPAYSGRETYVSNASLIIQNVTREDA GTYTLHIVKRGGDTRGETGHFTFLYRH SLDSALSLEVGTSSQPL*DTWENCPTLW LHCLMTELTSGLDSVLPVCVSAEVSPSPRS GFPVSKGFKDNWKFHPSLCPWOGKL QRKHTSGGKVRLKLRRFQHCMQLQVRIT SETPKPSISSSNLYPREDMEA VSLTCDCPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSARS DPVTNLNLPKLPKYITINNLNPRENKDV LAFTCEPKSENNTYIWWLNGQSLPVSPR VKRPIENRLLPSVTNETGPYQCEIQRDR YGGIRSYPPVTLNVLYTTKHSGLYACSVR NSATGMESSKSMVTKVVSAPGTGHPLJGL NPL
3027	11078 A	3972	1	1008	
3028	11079 A	3973	3	1374	
3029	11080 A	3974	1	1854	
3030	11081 A	3975	1	1319	
3031	11082 A	3976	1	2247	
3032	11083 A	3977	1	1993	
3033	11084 A	3978	1	1006	
3034	11085 A	3979	3	1095	AQITALVLRKFLDPRLISTEENTQAETM GPLSAPPCTEHWKGLLVTAASLLNFWN LPTTAQVITIEAQPQPKVSEKGKDVLVLLVHN LPQNLTYGIVWYKGQIRDLHYHYITSYVVD GQIYGPAYSGRETAYSNASLIIQNVTREDA DAGSYTLHIIKRGDGTGVTGVTGFTFTLYL ETPKPSISSSNLNPREAMETVILTCDCPETP DTSYQWWMNGQSLPMTHRFQLSETNRT LFLFGVTKYTAGPYECEIWEVSGASRSRD PVTLESP/RMGPDLPRIPFFSSPLNFRER NLGFVPGCDF*TPPAQYSWTINGKFCQL SGKQFLFIPQITPKHNGLYACSVRSATGE ESTSLSLIRVIAVPGLGTFCQ
3035	11086 A	398	653	1139	RPPFPHPHSESNQPPRQ/PDSSPTGTST*PA DTHCPKPVSQAQGGTAEGL*PRVHGPS PLPHSIGSAPPQCOEQGAPAGEWAREPGE DGVPGAQON*GKMEFSGAG/GOVPSR VVEGVQSHLRSCEGPPACPAVPCAAEGP DGRGPNTGRGGPQLRNQRRWEW
3036	11087 A	3980	3	1442	IRADPAHELENCSCPGKLRLSTERGRTAQ LTAVLREFLDPRLISTEENTQAETMGTIL SAPPCTQRIKWKGLLLTASLLNFWNLP TAQVITIEAQPQPKVSEKGDVLLVHNLPQ NLQTYIWYKGQIRDLHYHYITSYVVDGEI IIYGPAYSGRETAYSNASLIIQNVTREDA GTYTLHIIKGGDGTGVTGRTFTLHLET PKPSISSSNLNPRETMEEAVSLTCDCPETPD ASYLWWMNGQSLPMTHSLKLSETNRTL FLLGVTKYLLQDPICEIRNPVSARSIDP VHPGISCPCPKLPKYITINNLNPRENKDV NFTCEPKSENNTYIWWLNGQSLPVSPRV KRPIENRLLPSVTNETGPYQCEIQRDRY GGVRSIDPVTLNVLYGPDLPRIYPSFTYY RSQEVLYLSCSADSNNPAQYSWТИNE QLPGQKLFIRHITKHSGLYVCSVRNSAT GKESKSMVTKVVSAPGTGHPLJGL

3037	11088	A	3981	79	1565	EASLLEDDDGMVYLRLTSHQYRTAQL RAMLRKFLDPRLSSTEENTQAAETMGPL SAPPCTQRITWKGLLTTASLLNFWNPPIT AQVTEAEPTKVKSGKDVLVLLVHNLQPQ LAGVWYKGQMKDLYHYITSVVDQGII IYGPAYSGRETYVSNASLLIQNVTREDA GSYTLHIVKRGDGTRGETGHFTFLYLE TPKPSISSNNLYPREDMEA VSLTCDPETP DASYLWWMMNGQSLPMTHSLQLSKNKR TLFLFGVTKYTAGPYCEIRNPVSA SRSD PVTLNLLPKLPKYITINNLRPREKDVD AFTCEPKSENYYTYIWWLNGQSLPGSPV RVKRPNENRVLFTPCSRGIEITGPYQCEI VRDRLWVGLRSLPSSPWNVPLMGPDLPRI VBYVFTYLPFQGGKPSDLWSVLSRES*THR AGVFFFWGQFNGGSFSQIQQGKLFIPQIIT KHSGLYACSVRNSATGMESSKSMSTVKV SAPSGTGHPLQLNPL
3038	11089	A	3982	1	2045	MLEAAVHAPGNSDVTTRCATQVLLKPL VSYGQAETGFSVPQLVPPWDGLLHRDI PPGTLVHESPCPSLALAQLQFLNATSTHGC SAFARRKLEESFSQHSIQLQEGIRHGSRLSP SGAPVKDSGSRATPQGSRGGQQQHPSPQLL CGRDDLQASSGHCPFLLLFFPELSPRDA LQLLREASIEPTDKRQGRSWSVJNTA ATSLEWVPFHAFAIPIRSTLVSQQRLLSTER GRTAQLTAVLREFLDPRLISTEENTQAAE TMGTLSSAPPCTQRKWKGLLLTASLLNF WNLPTTAQVTFIAEPTKVSSEGKDVLLLV HNLQNLTGYIWYKGQMRDLYHYITSY VVDGEIIYGPAYSGRETA VSNASLLIQN VTQEDAGSYTLLHIIKRRDGTGGVTGHP TFTLHLETPKPSISSNNLPREAMEAVILT CDPATPAAGYVQWWMMNGQR/LSPMTIR LQLSKTNRTLFFGVTKYIAGPYCEIRNP WSASRSRDPVTLNLLPKLPKYITINNLP RENKDVLNFTCEPKSENYYTYIWWLNGQ SLPVSPRVKRPNIENRLLILPSVTRNETGPY QCEIRDRYGGIRSDPVTLNLYGPDLPRI YPSFTYRSGEVLYLSCP'ADSNPPAQS WTINGKVPFLQQQKLSIPQITKHSGLY ACSVRNSATGKESKSITVKVSDWILP
3039	11090	A	3986	212	461	TEEHLYSPHWKGCGRKVKRRLFQVRGR GWQIOTRQPGSMVKEPPLESEAGAESHVSC /RQGDCSRPPSFPLSPERVTWLPDSHTW

3040	11091	A	3987	1	2353	MRPPRAPPVPPDGLGPRLLCPVPAAGGAR SPSPSYVEPYGFHLDLQLFLKYIEELER GPAARRAPGPPTSRRRPRAPRPLAGARS PGAWTSSESLASDDGGAPGILSQGAPSG LLMOPLSPRAPPVRNPVRVEHTLRETSRRL ELAQTHERAPSPGRLVREQMAAALRR LRLATSERGGRARASPRADSPDGLAAGRS EGALQVLDGEVGSLDGTPTREVAEEA VPETREAGAQAVPETKEAGVEAEPETVE ADAATTEALLGLPAAAEREELLLRASLE HQRGVSELLRGRRLRELEEARAEAAA GARAGLREATTQTPWSCAAKAAQTESP AEAPSLTQESEPPGSMGDGRAPAGILK SIMKKRDGTGPAQPSGPKSLQFVGVLN GEYESSSSEDTNDSIDGDSENGGAEPG SSGGSDGSGGSDDSGTPGPPSGGDIRDPE PEAEAPQVQAQGRCELSPLRREACVAL QRQLSRSPRGVASDGGAVRLVAQEWFVR SSQRSSQAEPPARMLEGVRRLLGPELLAH VVTNLADGNGNATALHYSVSHNLAJASLL LDTGACEVNQRNRAGYSALMLAALTSV RQEEDMAVVQRLFCMDVNAKASQT GQTALMLAISHGRQDMVATLACGAD VNAQADAGATALMCASEYGRLDTWR LLTQPGVCDPSILDNEGPSALAUALEAET GMKVAALLVHAHLSGHPDTQSGVTPLA PQTANTW
3041	11092	A	399	2	510	FLANFLCIRD/GFHHVQGDGLHLLTS* ACLGLPKCWDRREPLRPTSPLLSRPHQ ALCLCAFHSAACTCTVN/SALAWAGF WNPQAPGF/SVAPARLHTTWSLSPMPL WATCSPGAGHEAPGLMLQDPFGPPWCS CGPVFHEKTAGCKARAFSGRVCRCKAQ ALPTEGR
3042	11093	A	3990	53	364	RSKVEAGLAPEPGLGARVGS/PGTRAR HGRGPVAAGASIGPGCCGPNEQVDEQAGP AQLQGPQGPAGPRAIGFPHLRLGGSCK1 KGDPGVRRPGSDRLLSSSPT
3043	11094	C	3991	408	620	
3044	11095	C	3992	64	300	MDSSHSTTLXPTANPNTGLVEDLRTGP LSMTTQQSNSQSFSTSHEGLEEDKDHP TSTLSSRNNDGHWRKKRPKSF*
3045	11096	A	3993	1	530	
3046	11097	A	3994	1	436	
3047	11098	A	3995	3	1009	
3048	11099	A	3996	1	2226	
3049	11100	A	3997	2	1599	QPLPGSVRIPRIPVLRRLPLPRAQGSSSSFR PRPPFAPDTMDKFHWHAAGWLGLCLVPLS LAQIDLNITCRFAGVPHVEKNGRYSISRT EAADLCKAFNSTLPTMAQMKEKALSIGFE TCRYGEIETHVVPRIHNPNSICAANNTGV YILTSNTSQYDITYCFNASAPPEEEDCTS DLPNNAFDGPITITTVNRDGTTRYVQKGEYR INPEDIYPSNPITDDVSSGSSSER:SSTSG GYIFTYFTSTVHPIPIDEDSPWITDSTDRIPA TNMDSSHSTTLQPTANPNTGLVEDLDR GPLSMTTTQQSNSQSFSTSHEGEEDDKDH PTSTLTSRNNDVTGGRDPNHSSEGTT LLEGGYTSHYPHTKESRTFIPVTSAKTGTGF GVTAVTVGDSPNSNVNRLSLGDDDTIFIPS GGSHTTHGSESDFGHSGSQEGGANTTS PRTQIPWEWLILASLLAALILAVCIAVN SRRRCGQKKKLVINSNGNAVEDRKPSSL NGEASKSQEMVHLVNKESSETPDQFMT ADETRNLQNVDMKIGV

3050	11101A	3998	245	1148	PPGSITPTPFAPDITMDKFWWHAAWGLCL VPLSLAQIDLNITCRFAFGVPHVEKNGRYS ISRTEAADLCKAfnNSTLPTMAQMEKALS IGETCRYGFIEGHVVIPRHPNSICAANN TGVVILTYNTSQYDTYCFNASAPPEECD TSVTDLNPNAFDGPITITVNRDGTRYVQK GEYRTNPEDIYPSNPTDDDVSSGSSSEVR ESTSGGYIFVTFSTVHPIPDDEDSPWITDS TDRIPATRDQDITFPPQWGPFLPLHGSF WDTHMGSQGRWEQTQPLGPIRDTPNSQ NGLIHLGHPLALGL
3051	11102A	3999	3	327	AGPGEVAAGDGRDSSGGPAGGRRCWLNW SGSGKSLLRKGNPSPVSIVCFCLPNHLYFDR N/CSLSSAGTKSGSYPPQISSMLLILVPP CVPQQTIPGLDLKTQKLSSLSSALI
3052	11103B	4	3508	3762	MTPGVNVHASPPPSQRVPRQ/ACPEWAIRN IGQKPKEPVNCHNCGTHIGLRSKTLRGTPN YLPQRQDTHPPSPVIFCLAGVGVPGLPV*
3053	11104A	40	25	412	IQARKKKQSVLGIETEDQGTFNLLRKGI MDJEAAYLERIGYKKFTSKLDFETLTDL HQPAVASFDNLTJVLCGDAMDLGLEAIFD QAVR*NRIGGWALQVNHLLYWALTTIG YETTKIGRYGYQTPAEK
3054	11105A	400	249	434	IEVYERGMWDYRLLFFFETECSVQAQVG TQWHDLSSLOPLSPG/SSNSPASAS*VAGI TGTH
3055	11106A	4000	8	280	SAQMAVTTADPRVPRVRVTTVFTSIASHT DTMVHLTPVEIKSAVTALWAKIVNVNEV GGEAPGOGCWVVLPLGPKGPKLKPFGGI CPNSLNAQ
3056	11107A	4001	405	647	
3057	11108A	4002	405	606	
3058	11109A	4003	1	849	
3059	11110A	4004	2	1173	PQQSPECVDVPLPVSVCSHWSIPTSHRLLR VLVTVCECELYVRWPRRCNADLTCCKAVQ NGWDLKLVPVCLHLLAVPGVGLFIDEQ VKQGFSVETFRDTRGVLVHGCIMSCLN NRVPYPLGKKQKSKKTTDVGVEVEESG RGCAGAAEVFQCMQMQGSHSAEAOES SSKVEGRHSYNSLYLWVISPRTPASLQ LOLJKCIRFWTWHEERFLYMLMEYVPG ELPSYLRNRGHFSSTTGLFYSAEIICAIEV LHSKEIVYRDLKPENILLDRDGHIKLTD GFAKKLIAYRLMWKSLLSEKRWVWRRCG GEAKER*Q*QQFGWVPAASKVRVS*SQDT CPIHHRQGRRLRTWTLCTGTPEYLAPEV SKGHGRAVWVWALGILFEMLSGWV L
3060	11111A	4005	149	1358	APPSHCLCVSVSRAEPRTRQRGRAWGAS VDAAAAAAAPSEASRGVRLPERSGLAR RPGPECLPMEAPGPQAQAAAESNSREV EDAADWAPALCPSPERSPEAPAYRQLD CDALVTMGTGTGFRVHLVKEKTAHKFF ALKVMSIPDVIRRKQEQHIVHNEKSVLKE VSHIPFLRLFWTWHEERFLYMLMEYVPG GELPSYLRNRGHFSSTTGLFYSAEIICAIE YLSKESIEVYRDLKPENILLDRDGHIKLTD GFAKKLVDRTWTLCTGTPEYLAPEV KGHGRADVWWALGILFEMLSGPFPFD DNPFGIYQKILAGKLYPRHLDFHVK/DG ANDVNHHWRFRSDWDWKAVPQRKLKPP VPTIAGNGDTSNFETTYPEHDWDTAAPVP QKDLIEFKNF
3061	11112A	4006	1	683	

3062	11113 A	4007	521	1163	SODTCPHHRKQGRLRTWTCGTPEYLAP EVIQSKGHGRADVWDWALGILIFEM/SG AFPKHVSSNASPGLQNWGRFPFFDDNP FGIQYQKILAGKLYFPRHLDFHVKCQTPK EKQKTKNKVIFLHARHQKQNKTNNNN SNKMKMFIKNGANDVKHHRWFRSDW KAVPQRKLKPPIVPTIAGNGDTSNFETY EHDWDTAAVPVQKDLIEFKNF
3063	11114 A	4008	181	1448	APPSPCRRRSVSRAGPRTRRRERAWGAS VDAAAAAPPSEAASREARLPERSGLARCP GPECPVMPAEPGLAQA AAAAESDRKVAE ETPDGAPALCPSPPEALSPPEPVYVSLQDFD TLATVGTGTFGRVHLVKEKTAHKHFALK VMSIPDVIRLKQEOHVHNEKSVLKEVSH PFLJRLFWTWHIDERFLYMLMEYVPGGEL FSYLRNRRGRFSSTTGLFYSAEIIACEYELH SKEIVYRDLKPENILLDRDGHKLTDGFG AKKLVDRTWTLCTGTPTEYLAPEVIQSKGH GRAFDWWALGULJFEMLSGFPPVFFDDN PFGIYOKILAGKUDPFRHLDPHVKDILIK KLIVVDRTRRLGNMKNGANDVXHHHRW FRSDWWEAVPQRKLKPPIVPRKIAQDGDT SNFETYPNENDWDTAAVPVQKDLIEFKNF
3064	11115 C	4009	3	167	MPMXAQIEEPQPIQVOKTRTNRLLTOLRE QDTQKCLCPLYNNQAPRKKFLLWA*
3065	11116 A	401	532	986	PWAKLGLSCVPAWQVQVLAICRWKEVG ILDFFFVFFFLR*SL/SDTQAGVQWC DLGSQQTPLPGFKWFSCPSPLSWDXRH APRSADFCIP/M/*RWGFTMLAKLVSN* PQ/CDLPASASQSAGITGVSQCTRNLGIF IDGTSVDSRT
3066	11117 A	4010	1	2195	MDPGTQLQSASQGPTAINPCDYVLKRRNI QTSWQRLLTPIKWHVYIILMIGPGEKEAG RNLGIFGKWTTPPKJPAKRLRSENCPVDA QEILWLPQAFREYLGRERGNFGPGRRTCEF WEVACGIVSWEWLWRQADSGDGSKG SPDACGUJDTSGLRAGHCYLTLLWHVSG RIPPSFLHHIPGVCKFKVVGKMTTFKE AVTFKDVAVVFTEEELGLLDPAQRLKLYR DVMLENFRNLLSVGHOPFHQDTCFLRE EKFWMMGTATOREGNSGGKIQTELESV PEAGAHEWWSOOIWEQIAKDLTRSQDS INNSQFFENGDVPSOVEAGLPTIHTGOK PSQGGKCKQSFSDVPIFIDLPQQLYSEEKS YTCDECGKSCYISALHIIHQRLVHMGKEC YKCDVCGKEFSQSSHQLTHQVRVHTGJEK PFKCGIQCGKGPSSRSLNVIHHKLHTGE KPYICEACGKAFIHDSQLEKHKRHTGEK PFKCDICGKTFYFRSLRKSHSMVHTGEK PFRCDTCDKSFHQRSALNRHCMVHTGE KPYRICECGKGFGFQRLDFYKHQVVTHTG EKPYNCKECGKSFWSCLLNHQRVHS GEKSKCCEECGKGFYFTNSQLSSHORSHS GEKPYKCEECGKGYVTKFLNLDLHQVRVH TGERPYNCKECOVNFSRASSILNHKRL H/SPEKNPFKCEDCGKRLVHRTYRKDQP RDYSGENPSKCEDCGRRYKRRRLNLDILL SLFLNDT
3067	11118 A	4011	1	4559	MDGAKAFFSAVAAGFVIIITCQLQWQW QHGGVHAHQLWQLASGYRDACFCVST YSSGPSEPPGPTGLTNELAIDL EERKHR RKA KVWKGEGGGLRSPRSQSLA-FRFLV ASRGT R SCHVSPYLVGVS GALSSPNPHST TGAGPIPVPQRWGLPQINOKNREIAIPLT LGMSHTLRRGCKNMSRFSPLSHCCTTIPIS TNFTDPGSHCKGAHDICLIIQNLKGAL PMSINRSYFNNAHPLQISEAVTFKDVAV VFT

3068	11119	A	4014	1	1387	FRAASGRETRAALGASQCLTPHPLPVRG GGGASGGGLRGAGQAWSAMSSPDAGV ASDDQSQTQSALPAVMAGLGPCKPWAES LSPIGDMKVKGEAPANSGAPAGAAGRA KGESRURRPMNAFMVWAKDERKRLAQQ NPDLHNAELSMLGKSWNAJTLAERKP LVEEAERLRVQHMDQHNPYKVRPWRK QVKRLKRVEGGPMHGMDEPQAAAMGP EGGRVAMDGLLQFPEQGFPAGPPLLPP HMGGHYRDCQSLGAPPLDGYPLPTDTS PLDGVDPPDPAFFAAMPMDGCPAAGTYSY AQVSDYAGPPEPPAGPMHPRLGPEPAGP SIPGLLAPPSSALHVYVGAMGSPGAGGGR GFMQGPOHQHQQHOOHPPGPQGPSSPP PEALPCRDGTDPSSQPAELLGEVDRTFEE QYLHIFACKPEMGLVYQGHDSGVNL.PDS HGAISSEVSDSA VVYCNYPDV
3069	11120	A	4019	77	407	ESDGKRRKKRSRGPDSOLEEKISKGCPO RRKPKRLYRPSNYSNRAFRMR/ARLPT RTSPETRTPQPHSPHSIPERTPTPPGRPP FLGAGQLQRLFMGIPQVGDCPPSS
3070	11121	A	402	2	992	FVDAAGGPLRCRSVVTGIVVVLQKSGNRP EAPALARQLPGRLELLLNFCNSAMSPADDA APAPASISLFDLSADAPVFQGLSLVSHAP GEALARAPRITSCSGGERESPERKLLQG VLVTISETKLFCTCDQFTQNHQEQRHEY KLWDHRFLNLKQRLQLOGOQPLLSAAGLKA ELHRRSPFAFSQRIQDASAEEDQLTD RERATFEKLSRPPGPFYPRHRVLFQNAQQG FSLCLPLCPL/LLIRIPOKRONILLTRILOS RGPDRDCVVLMAAAGHFAGAIFQGREVV THKTFHRYTVRAK/QGHSQGAFG/NARG GPHSAGANLRRYNEATLYKVS
3071	11122	A	4020	20	463	
3072	11123	A	4021	572	1594	SSDOWKRTMSWIKEGELSLLWERFCANIK AGPMPKHIAFMIDGNRRYAKKCQVERQ EGHPTGFKQULAEITLRWCLNLGILEVTY AFSIEFKRSKSEVEDGLMDLARQKFSRL MEEKEKLQKHGVVICVLGDLHLLPLLDLQ ELIAAQAVQATKVNCFNLVCFAYTSRH EISNAVREMA.WVGVEQGLLDPDSIESTLL DKCLYTNRSPHPDILIRTSGEVRLSDFL WQTSHSLVFQPVWLWPEYTFWNLFAIL QFQMNHSVLSQKARDMYAEEKRQOQLE RDQATVTEQLLREGLQASGDAQLRRTRL HKL SARREERVQGFLQALELKRADWLA RLGTASA
3073	11124	A	4022	2	365	
3074	11125	A	4023	1	464	RRWRICSTWTRSFATAWLPPAPSANFPR TDRSQGDGRGAPAGFALAPILEFLWDTS SQKFLQKPHCFMHGRERAKMGRRAQQE SAQAENHLNGKNSSLTLTGETSSAKLPR CRAQGGWAGDSVKASKFRRKASEEIEDF RLRQSLNQGSDYGGDIP
3075	11126	A	4024	254	662	
3076	11127	A	4025	3	392	MKYSJAOJLDGEIDLKLITKVLAPEHEV R*VOWWQQFPGLSTLAIPIPNAELPGI CLP*RPWNGREKVSLOLREKALSYPA KPFLEDDVGWDWDLHFTEVSSVLT WDPQLOTEKEPDQAGQRHT
3077	11128	A	4026	63	779	GPIRGFWPGFPGGGGGATPPAPTSLRL RAAGLAPRRRAKMGRAQQESEAQN HNGKNSSLITGETSSAKLPRCRQGGW AGDSVKASKFRRKASEEIEDFRLRQPSL NGSDVYGGDIPINPDEEVEQEEDFVLQVVA APPSIQKRVMTYRDLNDNLMKYSAI QTLDGED/IDLKLL/TPKVLAPEHEVRE NPSWQDDVGWDWDLHFTEVSSVSE/SFT EWDPLOTEREDPGGQOARHT

					EWDPQLTEKEDPGQQRHT
3078	11129	A	4027	2	311
3079	11130	A	4028	1	136
3080	11131	A	4029	2	170
3081	11132	A	403	2583	3827 DRVSLLLPRILECNGAILAHCNLCL/SGFK *FCSLSLPSNWWDYREVPPHQIIVFLVE MGFIHIAQAGLELLTSI/PI/IA/FKC WDYRRDHHAWLFFCSEVNSFTLLPRLE *GGLISDHCNRLLLGSSDLPASASQEPRL QACATTPL*FLYFW*RGFTMLARLVLVN S*PQV/HPPASAQSAEIIIVSHHTWPQEFLFLNLFYI.RWSLALSPLIECSDGISAH CLRPPGSSNLLPOPPE*LGQAPATTIG* FFCIFSRDGFSPC*PGGS*SPDLVICLPRPP KVLGLOV*ATTPGYFYFETGTHSVTWA AVQWYTIAHCSLELLSSSDPTTSSQVIG TTGAPHAAHLIVLFYLFIFIEMRVPVCVQAGLELLSSRDPFAWASQSAEITGMSHRAQLGIFKAPRMSV
3082	11133	C	4030	64	276 MCKALGTPYSQQQLRLGEASSVHRTC WHLLGQGSAARXXXXXXXXXXXXXXXXXXXXXXSIDPTTQG**
3083	11134	A	4031	3	295
3084	11135	A	4032	3	279
3085	11136	A	4033	3	392 RIRHEAAAKGAAAMS AHLQWMVVRNC SSFLIKRNKQTYSTEPNPLKARNSPRYN GLISPLKGWVEP AADGKGVVIVVINK RSGQRKPAITSYLRRTTINKNARATLSSIR HMRKUNKYRDPDLAGHAGAI
3086	11137	A	4034	2	562 VAAAKGSSRQCLRHLQWMVVRNCSSF LKRNKQDPTALSPNPLKARNSFRYNG\ LHKRDKCGTWSRSADGK\GVVVVWIK\RR SGQRKLA TSV\AGPPSTRNARSHASGR H\QV\HDPARNKLPPCTRMGSPFRRQR PFLAQAGRLVDWLKEGRDPAFPRSSLK PLGPKQQLKSAGVFSKKKKSR
3087	11138	A	4035	1	139
3088	11139	A	4036	1	299 VGIW*PVTFNGVISGKAIEMD*G/TPYIH ALTNGLLTVEAPHK/ERIALKPGYGRYLS INSDELVV/GRSDAIGPREQWEPVFQNNDG JPVMRMNSLQKATI
3089	11140	A	4037	796	911 AMA*YSVKS SKLVLKGTSKKKSTDK KRKREDEETQQLD/VGIW*TVTNFDEISGTI AIEMDEGTYIHALDNGLFTLGAHKEG\K MALLASNGCFIRCN EAGDIEAKSKTAGEEEMIKIRSCAERETK KDDIPEEDKGNVKQCEINYVKKFQSFP DHKLKISKEDSKILK KARKDGFHLHETL\, DRAAIKLEADRYCK
3090	11141	A	4038	193	754 ESRGIVWPHE DARINGSKKKKSKEKKR KREDEETQFD/VGIW*TVTNFDEISGTI AIEMDEGTYIHALDNGLFTLGAHKEG\K MALLASNGCFIRCN EAGDIEAKSKTAGEEEMIKIRSCAERETK KDDIPEEDKGNVKQCEINYVKKFQSFP DHKLKISKEDSKILK KARKDGFHLHETL\, DRAAIKLEADRYCK

3091	11142A	4039	213	919	YVOSLKOILS/GC1*ESIAKKKKNKKR KREEDEEETQLDIVGWWVTNFGEISGTI AIEMDKGTYIHALDNGLFTLGAPHKEVD EGSPPEQFTAIVKLDSRSLALKSGYGYKY LGINSDGLVVGGRSDA/GPREQWEPVFK MGKMASTNSNSCFIRHAEADILAKSKT AGEEMIQSGSP*SSVQPFHLLWTFALLT QEHRSSLKIRSCARETCKKDDIPEEDK GNIKQCEI
3092	11143B	404	1	336	MGRARWLTLVIPALWEAEAGGSREVEE YMGAEAVKSWSFTSMFKEWDEKVRREK TSSRRARAACCGGVFESPEYVHLLKVF EDLDKQQQTNSKASRRQEIIKIRAELEIK T*
3093	11144A	4040	802	1463	AEATALENPLEESRPHEARINGSKKKK SKDKKKRREDEEETQFD/IVGHWWTVIN GGISGTIAIEMDECTYIHALDNGLFTLGA PHIERJALKPGYCKYLSINSDELV/GRS KAIGPREQWEPVFPQNGACAAGFTVIGSE KQSECSLLRESRAKYHGCTHGOISSSLK QHPRWWMYSHQEDLKVSLSVEKKVTFE HIYLLKRNNSHISIAEAMYGRJLSNYI
3094	11145A	4041	879	1051	GGARYHFFFFFFFDGACSVTQAGVQWP ILGSLOPPPPRFQFSCSLPSSW/DYRJD
3095	11146A	4042	125	1366	RDSSSSTLSHSAKACAGFFPSTHKSGTF RPTSVRCLKYKSAKSFLHIGYREA VWC CQLRVPCRTTQFSSLDATNLQHSAWS RLCRGASRSTSAARSRSRSPAVEGCNR SPGAPOPAPRARRPSRGAPGRAMVVK A/NSALAOKEAKKDEPKSGEALIUPPD AVAVUDCKDPDDVVPGQORRAWCWC CFLGLAFMLAGVILIGGA YLYKYFALQPD DVYCYGKIKYKUDDVILNE/ESPASDAPAA LYQTIEENIKIFEEERSSLNFISVPEF/FAD SDPAKIVQDFNQETYRPLYDFNLUDCKY VPLNNTSMCYATPKTLELLINUKAGNLF ALSPYLDMSRHMGYLLDRNENIDHPGF FIYRLCHDKETYKLVQRRRETIKGJQKREAS NCFAIRHFEENKFAVETLICS
3096	11147A	4043	42	557	QAGKLPRGGLDSSRSRSSAAGLDRDQGL HRVAFPLKRRRTGGTRMDRSATAATAPP AAPAGEGGPPAPPNPLTSNRLQOQTQAO VDDVVDMRVNVNDKVLERDQKQSELEDD RC/ADALQAGASQFETSAAKLKRKYW WKNLK/MMIILGVICAIILIIIVYFQHLM RGVCPA
3097	11148A	4044	178	731	SERCHQQVFIPMPALPPGF/SQAGSCVP TGSSLVLCILLAASLLFVPTLALLTGTATT CWLCHNKRKLA/VRPLAWAGAFGGLVS TRLIHGRTSFYFNSLPLQTNSSCTQNH SWDSSGRGDLWPPLAAPPRLVGDLCLSC QAHTCQGADWHALLCLMVGTVGVP LPKAKHLEQNTSPFVVDAE
3098	11149A	4045	3	155	
3099	11150A	4046	100	448	WWEVKGMSHIGQKNNKQEGGAIHFRACV CVMEHSVTWLECSGAISAHCN/LRLQGS SNSPDSASRVAGTTSTRIEAQLIFVFIAE TGFHHVGQAALELLTSDDPPTSASQ/SAD MLYK
3100	11151A	4047	151	461	RITAATASLCPLPRPVTRLPLRSGK KEGMSSNNSTT/SISKPRKAVPQLKMEAC MDRVKVSQAAADULLAYCEAHVREDPPLI IPVAPASENPFFREKKFFCTIL
3101	11152A	4048	1	447	
3102	11153A	4049	553	1938	
3103	11154A	405	2	313	FFFLLRRSLALSPRLECSGVISAHCKLRLP GSR/RFSCSLSHSWDVRPPRPNFLY FLVEKGFIHCVSQDGLHLLTS/APP/TS/A/F

					PKCWDYRCDSMNFLMVSKD
3104	11155	A	4050	303	478 DCTSRPLCPLSARCDVHGLSPGPFLVRL* GLVIEDALPKSHSGGRGEVRQPWDFCGA
3105	11156	A	4051	458	964 DPRTMNLASIALLLTVLQVSRGQKVTS TACLVQDSLRLLDCRHEINT/SAVSP1QYEF SLTRETKKHVFVTGVGPVEHTYRSRINTF TSKYNMVKVLYLSAFTSKDGTYTCAHLH HSGHSPPISSQNVPVFRDHGKVCEGISL LAQNASHLILLLSSLSLQATDFMSL
3106	11157	A	4052	411	557 YSTDLEPNIKISTSGRLQWLMSPALWE A/EDQAGRSFEPNRLLRVWT
3107	11158	A	4053	508	1220 PLPPAATCPCKKQLGSQAWACRAARGA EOQVGWGRKHPAPSRRGVDKGSTKQK DPSAHTTSTLNQYQMHSCS/HKRRHTIT HTHTHTHTHTHTHRQHNPQGGPSDQ EAQGVVEKKAANPSHNTLQDQRVSSIL SCCKRKLAPSPQEQISMVGPGRGSNSWFP HWQRQQEPAKCSFLKEQWGGDSRM NRLMGPVNPSTSFPSRKLHGDVRC CWLHRAKCLSLARCPRJWRVW
3108	11159	A	4054	1609	1807 DRVWLLPRLEYSGMVSACNTHLLGSS QSPTASQAAGTIGAHYYVPLVYIYIY ILGFLVETRFR
3109	11160	C	4055	169	297 MILEPHXXXXXXXXXXGGGRKFEPPLGGPNLP GAGKVLFLFSLW.GAD*
3110	11161	A	4056	270	614 PFKFLITQVIRDPLFSSSEPYLGEKANHPP GFHHVKGQQASHVCKTTHAPSPCP/PDC CLCPSLGPAPFHRCGCEMFPGNFRCL LDPFYLDNIFRFFCSSLVTYPGGKEIARTF
3111	11162	A	4057	637	890 TKWAGSIVYLSFSFLHMFMSFLVV/STP LALCMLILVVLFLKLPLPKLFSELPLKL TFLPCELLHHLFLPQDLAYFFNGLRK
3112	11163	A	4058	3	297 ATAARPCPGLGRRAAGESRGPGHIGVRP/RG STLCQIATCHMSVNDDGCKYVLCRWEKRLWPA KVLARTATSTKNKRKEYFLAVQILSLE EKVKVSTESTEVIKEKSQEAIASSLASQNE VPAAPPLEELAYRSLRVALDVLESEGI WSQESSAGTGRADRSRSLRGKPMHEVSSPC DSNSSLPRGDVLGSRSRPHRRPCVQOSL SSSFTCEKDPECKVHDHKGLRSENPERG PLVLPAGGGQAQDESGRIIHKRNWLASK RGRNSAQKASCLNLNGSSLSEDDETERDM GSKGOSWAAPSLPSGVREDDPCANAE HDGPLGLSLTAPPAPPEPSACSEPCGCPA KKRPLRDGSQRPPAVOLEPMAAGAASP GPGPGPRESVTPRSTARLGPPIPSSASA TRCLPCPDSQKLEKECQSSSESMGSNSM RSILEEDEEDEEPPRVLLYHEPRSFVGM LVWIKHKYYPFWPAVVRSRVRQDKKA SVLYIEGHMNPKMKGFTVSLSKSLHIFDC KEKQTLLNQAREDFNODIGWCVSLITDY RVRJGTWGAGEGGWSAAGVQPLKTPW TGWAGAAWRRGIFFWAWGIPCGWAGV LAWPDYFLNRDAGPAGTHTFLGLLGLJH SALSPPPAGCGSFAGSFLEYYAADISKS TGCI
3113	11164	A	4059	2	1940 CGPLGLRRAGESRGPGHIGVRPGSTLCOIJ ATCHMSVNDDGCKYVLCRWEKRLWPA KVLARTATSTKNKRKEYFLAVQILSLE EKVKVSTESTEVIKEKSQEAIASSLASQNE VPAAPPLEELAYRSLRVALDVLESEGI WSQESSAGTGRADRSRSLRGKPMHEVSSPC DSNSSLPRGDVLGSRSRPHRRPCVQOSL SSSFTCEKDPECKVHDHKGLRSENPERG PLVLPAGGGQAQDESGRIIHKRNWLASK RGRNSAQKASCLNLNGSSLSEDDETERDM GSKGOSWAAPSLPSGVREDDPCANAE HDGPLGLSLTAPPAPPEPSACSEPCGCPA KKRPLRDGSQRPPAVOLEPMAAGAASP GPGPGPRESVTPRSTARLGPPIPSSASA TRCLPCPDSQKLEKECQSSSESMGSNSM RSILEEDEEDEEPPRVLLYHEPRSFVGM LVWIKHKYYPFWPAVVRSRVRQDKKA SVLYIEGHMNPKMKGFTVSLSKSLHIFDC KEKQTLLNQAREDFNODIGWCVSLITDY RVRJGTWGAGEGGWSAAGVQPLKTPW TGWAGAAWRRGIFFWAWGIPCGWAGV LAWPDYFLNRDAGPAGTHTFLGLLGLJH SALSPPPAGCGSFAGSFLEYYAADISKS TGCI

3114	11165	A	406	4565	5027	LIGYILFCFFFFFFFLRQSLVLLPGLECSG VIA.LAHCPNR/LPGFK*FSLSLPSSWNYR HAPARPVSVFVPLAEMGFIHIGQAGKL LTSVI/PPPTSA/FRKCDWYRREPRPTA/F FVLNKFTVLSNSNGF*T*DHRINHFMRMLY CNYTLEYSGSH
3115	11166	A	4060	1	2722	MRPRLRGSRHPRLFVPPGVLPGSQGHIG VRPGSITLCQHATCHMSVNDGGCKYVL CRWEKRLWPAKVTIAI/RVTSGLRNDFR VITSVTGPSSILKYLVFEPTVILNQLRIFTK RQITDDQAAHCSAPIKVKSSTEVEILEKESQI EAIASSLASQNEVPAAPLELAYRSSLRV ALDVLSEGSIWSESSAGTGRDNRSLRG KPMEHVSSPCDSNSSSLPRGDVLGSSRPH RRPFCVQSSLSSSSFTCEKDPECKVDHKK GLRKSENPRGVLVLPAGGGAQDESGSR HHKNWTLASKRGNSAQKASCLCLNGSS LSEDDTERDMGSKGGSWAAPSLPSGVR EDDPCANAEGHDGPLPLGSLATAAPEPS ACSEPGECPAKKRPRLDGSQRPPAQL PMAAGAAPSPGPGPGRPSVTPRSTARL GPPSHASADATRCLCPDSDQKLEKECQ SSEESMGNSNMSRMSILEEDEEDEPPRVL YHEPFSFEVGMWLWIKHKYKPFPPWAVS WDESTRGWISRLKAFAFTIALHIIPKSNAQ NRCHLTSPSLRVPGAHRLRSQDKPKPSGPR CPAFRPAQAIGSPVPTCVQISPSIRVPG AHLRSQDKPSGPRCPPEQLRAQTCAW CVSHLPEGPCCRRLPEPPLSGRNQAREDF NQD1GWCVSLITDYVRVRLCGGSFAGSFL EYYAADITSRACPGALIPWATSSVSSLW LVAAHIRCEECPGASFAGYGVPKRSIQ QDVLGTKLPQLSKGSPEEPVVGCPLGQR QPCRKMLPDRSRAARDRANQKLVEYIV KAKGAESHLRAILKSRSKPSRWLQTFLSS QYVTCVETYLEDEGQDLVVKYLQGVY QEVGAKVLQRTNGDIRFILDVLLPEAI CAISAVDEVDYKTAEEKYIKGPSLKLPG KRN
3116	11167	A	4061	57	235	
3117	11168	A	4062	754	1767	WTSSWWMSSVLTILLFLSLQGNKMLNYS PSAGGCLLDRKAVGTPAGGGFPRRHST LPSSKPHQNOQLLSSLKGEPAAPALSSRDSR FRDRSFSEGGERLLPTQKQPGGGOVN RYKTNELCRPFEENGACKYGDKQFAHG JHEHRSLTRHPKYKTELCRHTIGFCPC GPRCHFHNAEERRALAGARDLSADPR LQHSSFAGFPPSAAATAATGLLDSPTSI TPPPILSADDLGSPTLPDGTNNPAFFSSQ ELASLFAPSMLPVGGSPTTFLRPPMSES PHMFDSPPSPQDSLSDQEGYLSSSSSHS GSDSPTLDSRRLPIFSRLSISDD
3118	11169	A	4063	568	715	
3119	11170	A	4064	65	347	GLPAPLPPP/PPRSLPFPAPGLRSQRFS PPRHARPPPVARARAAPPHQASGRK VSAPLVERAPLRAPGLTATAVTVL ACAPPLEM
3120	11171	A	4065	1648	1974	KVFFCFYRIVYVCIVCVCVVC/C/ILQTL/C YSAIAMLTSQCLQSCGSQSWCQMHIKS SKAIFTIPCKFISRKWPWEGDCCSLEPHGV SAFDIWVPLCIKKVLNHFSRKN

3121	11172	A	4066	12	1662	FLRGGGCCFCYMTCORPSLRPTALLPERS VPLPPAAPPVVRHPPVAPPARRCPAP APPFFFFPDDWVWMLDMGDRKEVKMIPK SSFSINSLVPEGLQNNDNHASHGHHNHS HPQHIIHHIIHHIIHHIHPPPPAPQPPPPRAA QQQOPPPPLAPQAGGAAQSNDEKGPQL LLLPTDHHRPPSGAKAGGCCRPGELGP VGPDKEKGAGAGGEKEKGAGEGGK GEKKGEKEKGKNGKYEKPPFSYNAIJM MARIQSPERKRLTLNNGIYEFIMKNFPYRE NKQGWHSIRDNLSLNKCFVKVPRHYD DPGKGNYWMLDPSSDVFIIGGTTGKLR RRSFTSRAKLAFKRGAAALTSTGLITFMD RAGSLYWPMSPFSLIHHPRASSTLISYNG TTSAYPSHMPYSSVLTQNSLGNNSFST ANGLEAWDRLVNGEIPYATATHHILTA ALAAAVPGCLSVPCSGTYSLNPCSVNLL AGQTSYFPVPHPSMTQSSTFMSARA ASSTSDPAPSTLPCESLRSPSLPFTTGLS GGLSLYFTTHONQGSSSNPLIH
3122	11173	A	407	187	741	TRGTSAAARTGRSSGIAISMASGILVNVRKE EVTCPICLELLTQPLSLDCGHSCFCQACLT ANHCKSMLDKGECCPVCRISYQEPENIRP NRHVNANIEVEKLREVKLSPEGQKVDHICA RHGEKLSUFCQEDGEGSFCCWVC'AVFR EHRGSPHVSSQRRAFREYQVQLQAALE MLRQKQQAEELEADIR
3123	11174	A	4070	1	507	
3124	11175	A	4071	259	1409	FLWRYFVFGIVTEKEKVQPTVYIQLL DLIKAITSPHLEAGSKPSKKTGEKSSGS SSHESSKKEHIIHRKKVSGSSGEIPLIEDGV SHSKKKMKPLYVNTETLTREPDKLKM KLILSPKEKGSSVDEESQYPSQQATV KSSKKKSARDEQGALLLGHESOFLKITA RKHKHSSDAHSSPGLKGLGLDAISQ FRKSPHSANLDLSSGLEPILVLEDSSSSGE LEAGELVIDDSSREIKKKKSKKSKKK DKEKHKEKRHSKSKRSGLSAPVVG VTSGPPPSIYAGAAAPPPLPGLHTDGH SEKKKKKEEKDKERERGEKMGPSWKK ISSGLPLILHDGPWKNCFPRNRYPVPKRL RTADLVLGYLGSOKIJK
3125	11176	A	4072	436	2063	RREVEGWYFGFSHRTTVICCDTDPDISS LESSOKKKKSSPQSTDAMDLLKATISP LAAGSKPSKKTGEKSSGSFKAISGELKR EIIHRKKVSGSSGEIPLIEDGGSHSKKKM KPLYVNTETLTREPDKLKMILSPKEK GSSSDEEFSQYPSQATVKKSSKKKSAR DEOGALLLGHESOFLKTAKKHHSSSD AHSSPQEGCGSDASQFAEHSANLDLSS GLEPILVLEDSSSSGELEAGELVIDDSYR EIKKKKKSSKSKKKDKEREHKEKRHSK SKRSLGLSAPVVGTVTSGPPPSIYAG AAAPPPLPGLHTDGHSEKKKKKEEKDK ERERGEKPKKKNMSAYQVFCKEYRVTI VADHPCIDFGELSKKLAEVWKQLPEKD KLIWKQKAQYLQHKQNKAATTVKRK ASSESGSMVKVASSVGVLSPQKKSPPTI MLLPASPAKAPETIPIDVA AHLQLLGEISL SLIGHRLQETEGMVAVSGSLVLLDSIIC ALGPLACLTTLQPELNGCPKQVLSNTLD NIAYIMPGL
3126	11177	A	4073	323	539	PFMCLVHFPCAPGNVPPSARPRPSPSPRCH PCAPQEGKMTTHIPQFRVMPAPSCYNWLL ENVPIIQQNSGVRIIS
3127	11178	A	4074	27	425	GGSGGPAPRAPSATLLDTGEVAAVASGED KGIAASAAAAAAVFAFCSCSPDPQGSTMNP VYSPVQPGAPYGNPKNMAYTGYPTAYP AAAAPAYNPSLYFTNSPSYAPATLVMKQ

					AWPQNSSSCGTEGTFLPVDTG
3128	11179	A	4075	1	434
3129	11180	C	4076	117	251
3130	11181	A	4077	58	313
3131	11182	A	4078	1	279
3132	11183	A	4079	54	946
3133	11184	A	408	1234	1337
3134	11185	A	4080	1	502
3135	11186	A	4081	171	1184
3136	11187	A	4086	1	265
3137	11188	A	4087	1	987

3138	11189	A	4088	1	491	RGFRNPARVSOLLLCQAGGVLVSSFVM AAA VAMETD DAGNRLRQL ELEFVOCY ANHNTLJFLPQRGYFPKDKAFVNLYKL LYW KDP EYAKYLYPQCLHMLGAAPN MEHFRKEAGWNAQCAKFIGWNRQVST LGKHYHSRKRMRLQQALAEQQQQNNTS OK
3139	11190	A	4089	55	858	EKGRARGRRRRKMQLTRCCFVFLVQG SLYLVICGQDDGPPGSEDPERDDHEGP RPRVPRKRGHISPKSRPMASTLGLLAP PGEAWGILGQPNNRPNHSPPPSAKGKJIF OWGDFYNSIITVANLNLVTGK1VDHGN GTFSVFHQNATGOGNISLSPVPSKAVE FHQEQFQIFIEAKASKIFNCVRMEWEKVER GRRTSLFTHDPAKICSRDHAQSSSTWSIC SQPFKVVVCVYIAFYSTDYRLVQKVCPS YNYHSDTIYYPG
3140	11191	A	409	89	596	HLKTGSSLCHPRLECSGVILVHRLNRLUP OSSNSPASGSVPVA*ITGARHHDRLLFVFL VEMGFCYYVGQAGLELLTSDPPTSAOS AGVTGVSHCARPSAL*F*KSA*YNELELC LFYHH*YSKCIIHFHLFLDYNQNQNLITINIE SSLFISLILSTFVCYLAEP
3141	11192	A	4090	1	368	MARANLMLMTKLTVIISRKEELQOEAAAHR EVQSLPGEEMEERSSSKTCPVCDGRILS CMKICVPP/VGREKH*PRGRSH*HEAGCG PFTPKVDHHEHLPDDRVEAGSRQKST TEFPQAAAGW
3142	11193	A	4091	253	536	YLASLPIQSKVPESSRSHQVPPSSQLDSE TPPSN/RHRQPPVDRKCVCRPLPFPPTF RPPKVDHHEHLPDDRVEAGSRQKST TEFPQAAAGC
3143	11194	A	4096	318	543	KSSWSRWAFGTVRSPCGRQHRDIGATD NSGRSGPAEQRPQSS/ASSAMSAAGGSRL TFHPRNLPPR IPTQDQAALT
3144	11195	A	4097	42	342	ENEILLEVQVQLSRVCVFHFYHLHCCRHH CPENVHAG/CFGDCLG/HGRCSIQNCTFE R*I*VG*NNVATAVMFGLVFLVLSSLK YQVYFFKVLALMNPCSS
3145	11196	A	4098	1	1289	MYERVYVSTDIAIKLCCKLNRQFDRLY KKHSTGSAQEGKLKALPLJVEGEGEPC AEITRQEEREEGA VHFLGLTWOLOPVEGE LYANGVSKGNRGTESMDTTYSPIGGKVS DKSEKKVFQKGRADTGEVDIGAQVQM TIPGLFWRFQFTIHHPIYLFNISLAKDSL LGIYGRNIPPTHTQDFDVKLMGDQKQLV KQDSKGSDDTQHSPRNLILTSQETGFIE YMDQGPWYLAFYNDGKMEQVFLVTT AIFIIMDDCSTNCNGNGECISGHHCPFGF LGPDCARDSCPVLCCGNGEYEKGHCV RHGWKGPFCDVPEEQCDPTCFGHGTCI MGVCICVPGYKEICECEEEDCLDPMCNSH GICVKGECHCSTGWWGVNCETPL/ECQ SGHGTFLDAGVCSDCPKWTGSDCSTEH KGSSRRLF
3146	11197	A	4099	1	4509	VRLEWPPTDLAVNPMDNSLYVLDNNIVL QISENRRVRJIAGRPHICQVPGIDHFLYK VAHSTLESARAISVSHSGLFLIAETDERK VNRIQQVTTNGEYIAGAPTDCKIDP NCDCFSGDDGQYAKADAKMKAQPSLAVSP DGTLYVADLGNVRIRTISRNQAHLNMD NIYIEASPADQELYQFTVNGTHLHTLNLI TRDYVYNFTYNSEGOLGAITSSNGNSVH IRR DAGGMPWLWVPPGGQVYWLTISSN G
3147	11198	A	41	319	1002	

3148	11199	A	410	372		639	RAFWOYFKSLNMFMFSFDPAILLIGIYPKESW10K/DTLCPVSEIILMVVKNYN*YICHTRNNDQAGLIY/HLYSGYLAJK*VCEFFTLKG
3149	11200	A	4100	338		8522	SEMBQTIDCKPKYQPLPKVKHEMDLAYITS SSDESEDGKRKPQSNSRETLYHEYNQEL RMVNYSNSQRKRKEVEKSTQEMEFCETS HTLCSEGYOTDMHSVSRHGQYOLEMGSDV DTETEGAASPDHALRMWIRGMKSEIHSS CLSSRANSALSLLTDHERKSDGENGFK FSPVCCDMEAQAGSTQDVQSPHNFQFTF RPLPPPFFFFHACTCARPKPPPAADSLQRR SMTRSQSPAPAAPTSTQDSVHJHNS WVLSN
3150	11201	A	4101	139		520	LSPLPLSPRLECSGTLARCNLJPSPPRSKR FSCSLSPSSWDYVRAPPNLAIFFLFLV EMGFHHVQOTGLELLASNYLPTSA/FPK CWDYRHEPPCPADKTNFLSLWFIGYNIF LESEVNFFLPWDA
3151	11202	A	4102	7	497		
3152	11203	B	4103	93	182	PPPKALRRELPEEAAEEEERRKIEVPSEIE *	
3153	11204	A	4104	51		394	WGGPGLKPLLMVLDPYRAVALELQANR EPFDSSLVSPLSPRMMAARVFYLLIVSV CMCVVCVGAGTQRPEARTGTPPTCPLA S*VPLSAQQLHVKQEKPYGRLLIQPGPR FH
3154	11205	A	4105	427	499		
3155	11206	A	4106	796		2482	KTRGNMFMYPNVLQRHNGCFATIWL ATRGSRLVKREYLRVNVKTCEEILNYV LVRVQPPQPGPLPRPFLSYLSAQLQIGV RVYSSQOCQYLVEDIQHILYVRLHRAQLQ MRJDMETELPSLLPNILAMMETLEDAP DPFFGMMSVDPRLPSPDFIPQIRHLLAEAA PERVEEIPPEVPTEPREPERIPVTVLPPEAI TILEAEPLRMLEIIGERELPEVSRRELIDL LIAEEEAAILLEIPRLLPPPAEVEGIGEA LGPEELRLTGWEPGALLMEVTPPEELRL PAPPSPERPRPPVPPPLRRRRRRRLWDK ETQISPEEFPRNNLQTRAHCWECPMVWQ PPTERTGPAELFRTPTLSGWLPELLGL WTHCAOPPKALRRELPEEAAAEERR KIEVPSEIEVPREALEPSVPLMVSLEISLE AAEEEKSRSISLIPPEERWAWPEVEAPEAP ALPVVPEIIFEVPMEMPLVLPPEELLLN WKTVHRAVALELQANREPDFSSLVSP LSPPRMAVARVFYLLILVLSAQQLHVKQ EKPYGRLLIOPGPRFH
3156	11207	A	4107	136		423	SPEHPOQPGSLLRPGAGQIPSEWQVAEAT ALVHTLDGWSVVQTMVSTKTPDRKLJ FGKGNFELHLKKELEAAWGVEVFDRTV VLIHLRCNARTK
3157	11208	A	4108	1		212	RPPRRVVRGRHQPHEPAVRSGAPVVRP GEDDAAQPSAAERVGPRAVPGAGFTVH QHIGRGLHRRRRRLRQ*RHOPHGEPAVR SGAPVRVPGEDDAAQPSAAERVGPRAV PGAGFTVHOIHRGGLHRRRLRQ

3158	11209	A	4109	1	1746	AGRRTPGAAALPRGRPLGSAGSRAVLP RARASRCRQOEPRSGGAVGRRREGPAGG RRTKTERKTRRSRKMTRTRPRSCCGE SLCRRGPKRVCLVHPDVKWPGPKSQM TRAEWQVAEATALVHTLDGWSVVIHTM VVSTKTPDRKLIFGKGNFEHLTEKIRGSP DITCVFLNVERMAAPTKKELEAAWGE GCLTAFTVVLQHLPACNARTK/ERARLQ VALAGDARLHRSNLKRDVAHLYRGVG/ SRAYIMGSGESFH/MQLQQRQLREKEAKI RKALDRLRKRRHLLRQRQTRREFPVISV VGYTNCGKTTLILKALTGDAAIQPRDQL FATLDVTVAHAGTLPSRMTVLYVDTIGFL SQLPHGJESFSATLEDVAHSIDLILHVR DVSHPEAELOKCSVLTLRGLRLPAPL DSMVEVHNKVDLPGYSPTEPNVWPVPS ALRGHGULQELKVELDAAVLKATGRQIL TLRVRLAGAQLNWLKYEATVQEVDPV EDGAADVRIISNPFYGRK/FPRKLFPRMM GRPKACGVVGASPALGELRRLYPLCWQQ LGVRCSRVLLVWFCTRASQPFAGMYR ACR
3159	11210	A	411	136	251	IHQEKPPNIFSVKKRHYD*PGQHDPPLASA SQSAGITGV
3160	11211	B	4110	50	382	XQEOLVRQQLDAGVEHSGDWLDODDSV SDQFSVEFEVESLSDEDYSLSEEGQELSD EDDEVYQVTVYQAGESTDTSFEEDEPEIS LADYWKCCTSCNEMNPPLPSHCNRCWAH X*
3161	11212	A	4111	1665	1787	FFVLLVETGFHRVSQDGLDLTS*SAHL GLPKCWDRYRHEPP
3162	11213	A	4112	1431	1553	FFVLLVETGFHRVSQDGLDLTS*SAHL GLPKCWDRYRHEPP
3163	11214	A	4113	1740	1862	FFVLLVETGFHRVSQDGLDLTS*SAHL GLPKCWDRYRHEPP
3164	11215	A	4114	1	752	DLDAGVSEHSGDWLDQDSVSDQFSVEF EVESELSDEDYSPSEGGQELSDDEDEVYQ VTYVQAGESTDTSFEEDEPEISLADYWKC TSCNEMNPPLPSHCNRCWALENRWLPE DTGKDKGEISEKAKLENSTQAEEGFDVP DCKKTIVNDSRDESCV/EENDDKITQASQ QSEEDYSPQSTSSHIYSSQEDVKEFEREE TQDKEESVESSLPLNAIEPCVICO/GST* WLNCPWQNRTSYGLLYMCKEAKKEKE
3165	11216	A	4115	426	813	SSRFVWRAKLLCERAQSGTVYEI*OCA HRJPRHRHGPGCCRHRLGYAGTAGPLAG YRPFROHRSOLWRAASAICVDAISMRT SRSTVRPLWPPPSPARFATWSHYRLRHD GDHTHRPVDLPTSQFTILL
3166	11217	A	4116	1174	1354	FFVLLVETGFHRVSQDGLDLTS*SAHL GLPKCWDRYRHEPLRPAGLKFHSPGLYSQ PLT
3167	11218	A	4117	2251	2373	FFVLLVETGFHRVSQDGLDLTS*SAHL GLPKCWDRYRHEPP
3168	11219	A	4118	1027	1193	FFFFFFFFFFGFLVETGFHRVSQDSDLLLTS *SSRLGLPKCWDRYRHEPPRAEEGII
3169	11220	A	4119	983	1386	QEVRYRKVETLRCILFSSCLVPVCAASP VSRPGCRFLRSLSLHWPTGRLVFRQRGET FLVPEKTVLRGVASAPAQKAAGRTPVPG RPRDARLRADARS*SC*RAARPRRGASG AVGARCGPGRGPFLRSGGIV
3170	11221	A	412	118	337	IHQEKPPNIFSVKKRHYD*PGQYGKTLSL LKIQLAGYSGTCLIKSQLLRRVGREVIQL ALKIRAPIWKIECL

3171	11222	A	4120	6133	7646	YMLFLFLSTKGWTIVIQNRQDGSDVDFGRKWDQYKQGFGNVAATNTIDGKNCYGLPGNEQACKIKSFYLKWDFFLKNIHCKWPVLGS*EEFPDKNVAEAKDKGRKAVFSPKFYFW*ELFCFSRFEYWGLNDKISQLTRMGPTELLEIMEDWKGDKVKAHYGGFTQNEAKNYQISVNVYRGTVAGNALMDGAS\HLMG\ENRHDHPFHNGHGSFQPVYDRD\NDGWWVWHSLLLL*KSH*YHYSSESLTIFLIATTSWALTSHCPKLPFMHHSKAFQL*GRHSYSYHFTDEP*RDYVICPMSSHNYPEIKLEFHYSYFLNNEHLDKYLYLILKCV*KLSFSPFGFS\TKGCKSYSSIE\QTQSLDG\LPORPSYLSFL\*GTOGLWCISVTLCIAPKGKTTVHTSVAVEY\GSAKRNLTIVVLF\LTPTNTFSRLLTDPRKQCSKEDGGGWY\YNRCHAANPNGRY\YWGQYTWDMAK\HGTDG\VVWMNWKGWSYSMRKMSM\KIRGFPQO
3172	11223	A	4121	333	430	GRGDKPYPSPGDSWFVQD\ILVQL*ICPQEPS
3173	11224	A	4122	2	1679	
3174	11225	A	4123	42	1465	GRWPPIRGRENALSKTLVDMMDADYS AALDPAYTTLFENVQVLTGMNDTSPE GTINLNAPNSLGVSAALCAICDRATGKHY GASSCDGCKGFFRRSVRKNHMYSCRFSR QCVVDKDRNQCRYCRLLKKCFRAGMK KEAVQNERDRISTRSSYEDSSLPSINAL LQAEVLSRQJISPVSGINGDIRAKKIASIA DVCESMKEQQLLVLVVEWAKYIPAFCELP DDOVALLRAHAGEHILLGATKRSMVF DVILLENDYIVPRHCPLEAEMSRVSIRIL DELVLPFQELQIDDDNEYAYLKAIIPFDPD AKGLSDPGKIKRRLRSQVQVSLEDYINDR QYDSRGRFGELELLLPTLQSIWQMIEQI QFKLFGMAKIDNLLQEMLLGQPSDAP HAHFPLPHLMQEHMGTVIVANTMPT HLSNGQMSTPETPQSPPGGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEV
3175	11226	A	4124	3	1840	
3176	11227	A	4125	6233	6874	VLIGCIPQVPPSISYSPFLFWFSALGNVAEI FFCLCLGNHNSCWRTLVVEVPESLCPHC *RLLV*HSGDIWVLTQOMLQLDPAALP CPSSIVDAKGLSDPGKIKRRLRSQVQVSLL EDVYNDRQYDSRGRFGELELLLPTLQSIWQMIEQI QFKLFGMAKIDNLLQEMLLGQPSDAP HAHFPLPHLMQEHMGTVIVANTMPT HLSNGQMSTPETPQSPPGGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEV
3177	11228	A	4126	1	1481	GFVGVAOGGRAGGRVVEAGRMRSLKTL VDMDADYSAALDPAYTTLFENVQVLTGMNDTSPEGTNLNAPNSLGVSAALCAICDRATGKHYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCVVDKDRNQCRYCRLLKKCFRAGMKKEAVQNERDRISTRSSYEDSSLPSINALQAEVLSRQJISPVSGINGDIRAKKIASIA DVCESMKEQQLLVLVVEWAKYIPAFCELP DDOVALLRAHAGEHILLGATKRSMVF DVILLENDYIVPRHCPLEAEMSRVSIRIL DELVLPFQELQIDDDNEYAYLKAIIPFDPD AKGLSDPGKIKRRLRSQVQVSLEDYINDR QYDSRGRFGELELLLPTLQSIWQMIEQI QFKLFGMAKIDNLLQEMLLGQPSDAP HAHFPLPHLMQEHMGTVIVANTMPT HLSNGQMSTPETPQSPPGGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEV
3178	11229	A	4127	602	799	ENPKQOENLWSQYFTLISTIKKKSWLCI VAHACDSTLGD*GGHIA*AQEFETSVG NIVKPPSLY

3179	11230	A	4128	646	1905	
3180	11231	A	4129	6717	7569	
3181	11232	A	413	160	437	KRDITTSLGQYQGQNPSSLKIQILAGYVSG TCLUKSQQLRRLRHQNRNLNLGGRGVGS QRSLCHSHWGHHSETVSKKKRERQQ WRQJGTCMP
3182	11233	A	4130	2	93	DFTMSSHYHSAHGLVLAPRALGNPLSL YPSNYTTPQQHSPSDPCTQSYSLPPPEYAT HGSSCFDTTDGGLNNSRALAGSCAPVSG SLPCPCTLGISSPPLPHMHKSPLTPPTPTI SMKPP*PCPGSOPGPWQSAPTLP
3183	11234	A	4131	743	955	ESDFTIEYFTHNSCLFCYNYIYIYIKLSS NCNYGNYFLYIVAAHTQTYYIYI*NPCCF CHILLTFCLG
3184	11235	A	4132	49	313	PLRIWPC*ALFLKLSSLQFLSLF*FYSSLFL SPPLC*SLPRVQYIYIMYLICIN*YTYY QVICNGYMYSCSWCSNVWYGYTEM RT
3185	11236	A	4134	508	780	VSFSSFPSPFPHLSLFFSLSFSPPSLSFSS FFFTFGNHL*ISCNPNLMLYQWGFYKY YYQCIFWLLSDF*LKYNNENDMSVAFGLR TSL
3186	11237	A	4135	34	329	DRLRKRNKQQLSYLWEYNKKSNCVQTQ SLEREEDDRAEKVVE*MASNPFLSLRD VNLIKQDS*RLNWIKLKKSIISKYIIDLLE TKDHRNLESSQ
3187	11238	A	4136	582	869	MCQRVQTPKSPSPNYPVHSNICTQLFIAPL SIAKRWKQPKCPSAEE*INEM*YHMS YDSAIKRNEVLIHVTTWKNFENIRLMKD ASHKGLYVA
3188	11239	A	4137	285	346	AVLFYVFFHPIPYLLVMTLLLYFLP*LPNQC RFSLLSKTTAWPSTTVTLF
3189	11240	A	4138	97	298	DNLTLPLRECGGMIMAHCSNLNTFSSD PAASAS*VAGTTGT*HHAWIFVFLCNWL RNKGVTVKKRS
3190	11241	A	4139	147	502	IFHSKMP*ISEWKLV*TLWQFFKELKIELP FDPAPILLGI*PKLAVVAPQHS
3191	11242	A	414	2	150	WPLSLLEPGLHPSNHVQGPAVGIDLGTT YSCVPNGRNTIPSYVALRPG
3192	11243	A	4140	435	660	NLNLQHEKLSMLE*ILKSYPKILLDNINDHE VSHCSKGNNFKNRSEWVWCGTQDSWR LGNLKVEEEFNDLTRNTL
3193	11244	A	4141	293	563	NVWPSSSVGRNNE*GREGGRRRTQOAA GLGPAPSDLWWLWSLWLQKNMMSQGG ENLPAAGPGSCCGCREAQEGAGTSLEDAPP FEAQQLLQH
3194	11245	A	4142	1329	1563	WPRNQPIRRLPWLKDLPVGPGGLTGP PCGQGPGPBPPLRPSALWSSHSGPONG EPLPPLRGE*YLHPSPRRTSYL
3195	11246	A	4143	304	589	RTWWTAAASYFRSVEGGASNRPFSPGPY EIPQLPRGHISRKGTINRSRAREPSTLWSTP AAP*RTWWTAAASYFRSVEGGASNRFSI PGPYEFQPLPRGHISRKGTTEEQSQGAITY VEYACSAVKNLVDSSVYFRSVEGLLKQ AISIRDHMNAQAQGHR
3196	11247	A	4144	131	690	VSPAVITSSSLSWARSDLAAEGHARCP CSGWAQHLSNEADALSPHTRPPIPTC* SRTSSLRASTSWPTSIPWPCPTCRSMCV RSLPELAQHEADNAALGRSRAREPSTLW STPAAP*RTWWTAAASTSAAWRVCNSRP SASGTILNASCPCGPQVAPGDRPPLPPISSL QGPPLSCAGEFLLLAY
3197	11248	C	4145	332	421	MEKIKFSQPGMVAPTCNPSTLGGQGRW T*
3198	11249	A	4146	685	929	KVGGAKPSLGYLRLGLRLLPVFCLHIS*A GDFPRGV*LPLRRRGSGVVAHTCNPSTLG GQGRQIT*GQEFTKGPVNVMVKPHLY

3199	11250	C	4147	710	892	MCVCAHTCPQTISIYHVFTHGYDCIQVT AQKCLHMCFIHHMSTHACVDTYIICYIH VKLI*
3200	11251	A	4148	98	317	
3201	11252	A	4149	656	1037	FVQVQAHKLACKHVQGAYFVFKEQQPE GNVRCQGVSTS*EHGASSEPWHGPAGA GVTSFSFSGGDRHKEFVSGRLLPTEG LPSNSSETSFPSIPWPFLFPQVQLSTIWG LKQFQFGDILKLP
3202	11253	A	415	1	1786	MCLLVTITYSSRHVYNNLTEEQKGRVAF SNFLAGDASLQIEPLPKPSDEGRYTCVKW NSGRYVVWSHVILKVLVRPSKPKCELEGE LTEGSDL TLQCESSSGTEPIVYYWQRIRE KEGEDERLPPKSRIDYNHQGRVLLQNLT MSYSGLYQCTAGNEAGKESCVRVTVQ STMPFQGTQLQIDLQGTTYSICVGVFQQR KSPIRLLANQDGNRNTTFSVYVAPFTGH*TG WIGDAAKNQIVAMNPNTNTVFNAKRSD LDGRF*MNACVPVLMKHWALYWWGE MMLGRPQGPK*DYGEDQKAFYPEEGC LLWVPDKD*KEICRSPNLGEELVTNAV TVPAYFNDISQRQATKDAGTIAGLNVL INNEVPTAAIAYGLDKKVGAERNVLJFDL GGGTDFVSIILTIEDGIFEVKSTAGDTHLG GEDFDNRMVNHFIAEFKRKHKKDISENK RAVRRRLTACERAKRTLSSSQASIEIDS LYEGIDYTSITRAREELNADLFRGTL PVEKALRDAKLDKSQIHDIVLVGGSTRIP KIQKLLQDFNGKELNKSINPDEAVAYG AEMRQDKKEELLDPIAEDFLEEVAFDKK RMGFGEF
3203	11254	A	4150	1365	1503	LKLTLQRAGCSAHACNPSTLGGQGRWII* AQEFTNSLGNVAKPCLY
3204	11255	A	4151	397	682	YSKSCHKAYRMKCOLNVGLSCKCCECT EWRDPCCELEQESLWQVQLAHACNP TLCGQGRRIA*GQKFKNSLNNIARPHLF KKRKISLMLWRWLK
3205	11256	A	4152	477	684	LYLCALSALKNQ*EPGMVTHAWNPSTLG GKGRRTA*AQEFQTSLSNVGRACLYKII IFKISQAWWHAFV
3206	11257	A	4153	108	419	SHTLGGQHGRIMRSGVRDQPGQHGETPS LLKIQKKKKLPGRAGRHL*SQLRRL ENRLNLGGGGSETIEPLPQPG*TQ* R LPSQKQNKNLLETYSKKKS
3207	11258	A	4154	175	190	DKVRVSVQRLTSRHILTLR*IRKGRGKK RGCRERNRERNGK*KV
3208	11259	A	4156	20	430	RPQTYTMVHLIPEEKCAVTLWKGANV DEVGGEALRGLLVVPPWTHRFETFGD VSTPDAVMGIPNGNADGMNVLWASIDG LAHLDNLRGTFATLTEHD*D*LIVDPEIL MILGNVILCIVLAHHCVGEFSFWQAA
3209	11260	A	4157	31	492	QRILQSRPFEGRVKQGVTLWLLQVLGLVS ESHIGPELHLPCSEECHLLVSVFGVNSPE DSSPLTEWLWTSIHLPLLHCLFGASGR GLQTVPFFVSTALQNVCPQKGKAPFL LSCATGGCSAGRLVYKLRSAPSCD*AGR TRGSSGESAPML
3210	11261	A	4158	165	433	GSQADHPCVGWRQNSVNPRQVFLQAT G*LISASSGSINTNMAGTAVVCFGPVYP PKAKGRARSQVTPCLTLPKGRILCKILC YLFKL
3211	11262	A	4159	132	257	
3212	11263	A	416	1	154	PQRVARRKRAVLPTSKA*PENTPSFTS ASMEWASRSVHLGHSKRFGNLP

3213	11264	A	4160	2	111	QLLKDSARSTLVLYPCWAVRSQSKGGCP LKVLSPRGKKLGLLWVEAWECPGAVA RCLCHPGPLCPASGFTTVPGTEPHS*LL RNELSPSLF*LLQSEPEKWMLPQQGAIS ETR
3214	11265	A	4161	3	116	GWWRAPTSQPGGPAQVPCSSF*KILPGQH WSSTPAGPE
3215	11266	A	4162	273	793	DSLLL1QVDTMPFTLHLRSRLPSAIRSLL QKPKDPRNTESMAGGAUTSQQPGPAQVPC CSSF*KILPGQHWSSTPAQPE*ARKVDDAA PSRCYLRDOPKGPFKVPGTEPHS*LLRN ELPSPLF*LLGQSEPEKWMLPQOGAISET SLRDLSKCQAQNLTHDCCSGTSCPPHCS DSPPYHLAPVLAIEIMEKVEQPWNRNPT GSAICPLHRPSQKACTGURK
3216	11267	A	4164	212	494	FSEAAQFLANVAIAKALSEE1SEGKGDRRM LADHTLILTERGSEGPCC*PQEVRPTVLS EWGCGCAQANCECSP*PWPWKSRAHGIF PPLSLGKL
3217	11268	A	4165	281	587	EIFPNPKREYLSLHWMDEHQCPNFIIHV GQGGLGTIWQDVLQEQYNQKNFLYINSLK DKFGLWMW*LTPVIPALWEAEVGGSL PRSSKTSLGNMARSHPYKK
3218	11269	A	4166	113	564	IDRLDSAKIFGHLSIFDRCEKRRPDLVSG TGTCSGSFRRTVTPQAVPGRTDSPIRTH GPNVF*TLVEKKPAAW*TPACDLTSK PSIPIILVPTPKVEPGSLPTPA*DPLEIQ SPEKE*SVVPQTGSFQTAQSLTEAVPELV LVAH
3219	11270	A	4167	1173	1432	PIPVDLNTLMFCHYFIYVYHPCLEMFSFT CGLLS*AQRPDSGYYFEAFIVIILFCTMF FLNVQLYSSEKNTVFDVNHSYYTVLR
3220	11271	A	4168	75	270	QYISVVDTYTLLMPRLATAIHLWITN*VFE KRAVAHFGYHWSLMVRDRRISGVDTRYVV SKGLENID
3221	11272	A	4169	271	825	SPPACLVQDQQQALPSGGGLYPNSLRQGS VGQAGRGRGCLSWFCMVHFANPEDQFLGF QASGLLPHVLLKPPQGAATPSGSQGGPA MSFGLPSEPTTPATPQNPILHSSTKLCE AAAPTRGKPCTPSIIQFWHRTDGKGRA GFSASGTRGRPHLTPSPVHQTG*EASQK GPALMPPGPQOPPKGR
3222	11273	A	417	1	893	PTPCKMAGEKVEKPDTEKEKKPEAKKIV DAGGKVKKGNLKAKKPKKKGP*HCSRN PVLLRGIGRSYRSAMYSRKAMYKURKYS AAKSVEKKKEKVLATVTKPVGGDKN GGTRVVKLRLKMPRYYPTEDVPVRKLLSH GKWPFSQHVRKLRASIY/TPGTILILTGR HRGKRVVFLKQLASGLLVTGPLVLR VPLRRTHQKFVIAATFTKIDISNVKIPKHL TDAFVKKKKLRKPRHQEGEIIFDTEKEKY EITEORKIDQAVDSQLPKIKAIQPQLQGY LRSVFALTNGIYPHKLVP
3223	11274	A	4170	1	211	THPPFAEAPGAEGPQ*G*AKHPSAP*APL LPRRRARASSRPTVTSPTSSGGSFRRGTP AQGVITAVTVSA
3224	11275	A	4171	1	424	NSRIVDDFVRPGGSSAAGROMRGGGQQV PNPRPGFRGQQP*RNQHGPVPASWPALAG DAGGMLWNMMMRSPWPSGRFTLNPFNK QSGPRHQEGPGGEVVPDVTPPEALPELPP GEPEFRCPERVMDLGLSEDHFPSRPVGLFP GL
3225	11276	A	4172	1091	1421	RGITDEINKHPDHHISPTHTCRHFTINMH AHTHTPTYMHHTGMFW*K*N*GSLNS RSFGK
3226	11277	A	4173	1407	1607	LSDLNGNHFHSKVMTRVNUKGNYLKNM RPGAVAHACNCSTLGGQQGQTA*AQEL ETSLGNVVRCLY

3227	11278	A	4174	1	294	FSRPDHLNGHIKQVHTSERPHKCQVWV GSSSLPPLPPLPSDLSWDFAQPALWR/ CVPFGS*HRLPFPSKIKIPSP*KPGPSTLQQ HSLDLPAFISG
3228	11279	A	4175	560	824	FWKVGCLPWEALAHIPAYLLPPPLGITS*A LGEPRRTGGWPWTPTFPPLPVRVSRSQRLG TIPT*SQPHACPLPLPHSGSRSCPWFWL.V K
3229	11280	A	4176	3	325	FFHVSRNLFYFFRYIKHCYFIFSLIIVLVSGS RVNLLLGLIVYCFLVVFMNF*TWISHF LSFFFFCRDGVSIIHCVAQAALFTPGLKC WDSSRREPPRAEMFLFLGT
3230	11281	A	4177	292	543	SPGTYAPKRIGKGAGGNWKPGVPRSSM WKETQPLSSRVRVKLVLSVSPSPPIPVPV LPLALPK*GHSPLVPSPLHRSQQGESP SPSAAQC
3231	11282	A	4178	3	367	IQMDCVLLFPQAQISAPPLIMKTPTIS WGLEHICPSYPWNHSPSLYHRVAMGEG MFQSGPCSSWAWKLSRTLPLSLVVALSS AWPLTRG*RLDLGPAPSSVYGFSSQASP SPSAAQC
3232	11283	A	4179	67	283	MCAYIKIDKGNRMYCTNMIYLVEGIGV FSLTLMYKTYKTLIIMSLYVKRJTLISCAF YVNLWINLYYAMEI*MCAYIKIDKGNRM YCTNMIYLVEGIGVVTFSLTLMYKTYKLI MLSYVKRJTLISCAFYVNLWINLYYAMF IK
3233	11284	A	418	934	1272	WCILGLCTSILMSRTALFPSSRHTFA/RSH SAASKL/EKKKKEKVLAUTVTKPVGGDKN GGTRVVKLRKMPRYPTEDVPRKLLSH GKKPFSQHVRKLRPSITPG/TILHLTGRH RG
3234	11285	A	4180	268	467	GNRALLRLPAGPSSP/DGFTPGTTA RPSILKRCMPPTLPDPDPSAAAGTSELW TSPDSSSSR
3235	11286	A	4181	880	1200	GNPTWLFLPSVQGNSGPAAEIQS*GFTPGT TARPSILKRSRPMPTPLPPDPSAAAGTSEL WTSPD*QQQQQDGKEAPQSGRHDSSSA LRPAAPEALPVSRPPPPLA
3236	11287	A	4182	343	720	SCLLTVISFHQIKKIVVYHTQLTKAGQKE FICRSLSLTNLPPAAPPPLAMAPCVPSPAS RQDTVLGGPQOPPSGFAPTAPQQA*AR WQLGPSPGPSSILPREGRPSAPSGAGWG GDLAGPSQVHE
3237	11288	A	4183	789	1015	MSLMVPLMPYGP*YLPPSPPAWPHWEL PLPQRDSADVSRRRLGGRGVAPERDSPT KSNISKFGLYQVACAVTHL
3238	11289	A	4184	319	471	IMWYIHHIMEYI*PQKGRKILTHATI*MKL EDIMLSEISQSQKNCYCHSVI
3239	11290	A	4185	68	422	GSPSRCFAFLSSPVAAARPPLTHFTGAGL LRASGEPACLQTGSVQS*PPRAPSSGLPL KHSFHQSQAQHSKEGLGGGTNTRENT* PSPRPLCMGAQAGRMLLLPAAVRNHVL ESGSV
3240	11291	A	4186	135	500	PPWVTPRWERGWGVIRDTGDRVR.SQRQ QOLPPKLQSGWEVESWLGPFRPRVFPGS VPGTPRSFAAGGSQRCPDARPAHKGPR APGARCGPFPAPPGLPPAY*PGRPR/PRP ARR*TPLTAA

3241	11292	A	4187	365	1452	IGPEVPEGCHFRSGESRGDAFLAYRVESE HHLGLEGCGAGNATLVQGVGRKIPCLGLR GAII.GPQIAVRIGSRIMARPAAPGLSQA RSLARRGCPAAAGGSQPRCPDARPAHKGP RAPGARCGPPPAPPGLPPAY*PGRPRRG LHGGRRHRSRRPQRGPAAFGSPAAEVAG ASARGRAGPAPPCPRPPPPAIPRAPRVEAG PSARPSPVAPAPAPSRSRPLPQPAAFWG GRASGPKDPTGATPPPTRTQTSARNPSRSP PPAPPSPASAGASADDPGTPWHTRGPC QSQTTRKHTGP*AAARDQRQSRRKDSDPTG LCHLRLPGAPKCLKGLWFAFSVHPPWSS TPWLQSGRVNLPLAQDIFLL
3242	11293	A	4188	200	390	GPIHAKSAAFP*LSSEQOLGQG*QPQGQTPVVG RLLALSVAFPQVGFFKAAGGTGEAFGG LACPLP
3243	11294	A	4189	805	1030	LVLCLPLHSQLTKGTSHCTLTLQGLP*KL TRLALFRLGAVAHACNPSTLGGPRGPT* CQEFKTRLANMVKPLLY
3244	11295	A	419	1	2607	MAFAWWPCLLALLSSLAASGFPRSPFR LLGVANGIEVYSTKINSKVTSRFAHNVV TMRAVNVNADDTAKEVSFDVELPKTAFITN FTLTIDGVTVYPGNVKEKEVAKKQYEKA VSQGKTAGLVKASGRKLEKFTVSVNVA AGSKVTFELTYEEELKRRHKGKYEMYLK VQPKQLVVKHFEIEVIDFEPQOGISMLDAEA SFTNDLGSALTKSFSGKKGHVSFKPSL DQQRCPTCTDSLNLNGDFITTYDVNRESP GNVQVNGYFVHFHFAPQGLPVPKNVAF VIDISGSMAGRKLKLEQTKEALLRILEDMQE EDYLNFLFSGDVSTWKEHLVQATPENL QEARTFVKSMEDKGMTNNNDGLLRGHS MLNKAREEHRIPERSTSIVIMLTGDAJV GERSPEKIQENVRAIAKGKFFLYNLFGF NNLNNYNFLENMALENHGFARRYEDSD ADLQLQGFYEEVANPLLTGVEMEYEPEN AILDLTQNTYQHFYDGSEIVVAGRLVDE DMNSFKADVKGHGATNDLITFTEEVDMK EMEKALQERDYIIFGNYIERLWAYLTIEQ LLEKRKNAHGEKEENLTARALDLSLKY HFVPTLTSMVVTKPEDNEDERAIAJKPG EASYQPQNPQYVVVGDQDPHIIQPEKDD ALCFNIDEAPGTVRLIQDQAVTGLTVNG QITGDKRGSQPSDKTRKTYFGKLQIANAQ MDPQVEVTTEKTCGTTGRASTFSWLDT VTVTQDGLSMMINRKNMVVSFGDGVTF VVVLHQVWKKHPVHDFLGFYVVVDSH RMSAQTHGLLGGQFQPFDFKVSDFIRPGS DPTKPDATLVVKNHQJLIVTRGSQKDYRK DASIGTKVVCWFVHNNGEGLIDGVHTD YIVPNLF
3245	11296	A	4190	90	417	LALEILSYFYLLYLPPWHFGFNSVVALSL KILNIVYLFSSFKSLSRNFSALVSJFFVFCF SSFSACFSLNSKDF*NPDIKEKPHVKNS RIYKTQYSKDHQRENOQFR
3246	11297	A	4191	2	672	GRVGFTPGSWEAFMVKNIVPKLGMCLG ELVINPHQHMIDAFYWWIDWEGMISVSS LVGLLEKHFPPKWLOVLCWSLNSNPNYE EITKWLGLWKSMSFDQVLAHPSVKDKL NEALDVMNRAVGSYVGAYMOPGWARE NIAYLTHTERRKDFQYDAMHERRAGPQI GLRSLGKNIKICAKKEPLEIYLWANLK EYIYAKTGGQGPFFLTRAPEGLITA WA LWG

3247	11298	A	4192	1642	2785	RM TSSCPMADRTCPFLPSHRLJWEVWMP FVRNIVTQWQPRNCDPMDPLDSWVHII PVWILDNILDQLIPLKQLKEVENWNPLTD TVPITHSWIHJWLPLNMQARLEPLYSPIRSK LSSALQKWHPSDSSAKLILQWPWKDVFTP GSWEAFMVYKNIVPKLGMLGELVINPH QQHMDAFYWWIDWEGMISVSSS_VGLLE KHFPPKWLOVLCSWLSNSPNYEEI/TPK WYLGWSMPSDQVLAHSIWSRDKFNE ALDJMNRASSTVGYAKQPGARENIAYL HTTERRKDFOYEAMQERRPENNAQORG IGWAASSVPMNFKDLIETKAEEHNIVFM PVIGKRJHEGKQLYTFGRIVIYIDRGVVFV QEGKETWVPTSLQSLIDMAK
3248	11299	A	4193	264	638	PSRTRIKTKQMATSEILPSFVATMDASNF SFWQVLCWSLSNSPNYEEI/TPKWLGWK SMFSDQVLAHPSVKDKDFNEALDMMR VSSNVKG*GFPFWMSWPQVSDFTHVND TESEFGSGSCRQPKF
3249	11300	A	4194	2413	2707	EMHVY/WTERSGSRL*SEHFGRPRRVWDH */RQEFEQTQPGQYGDTPSLHPLLSTSCPS FLSLPSFLVTFPPSSFLSLFLIYLRSRHD LACDCPLFLD
3250	11301	A	4195	835	1050	GSR*HNLOQIGRPRRADHLSRGV*DQPGQ HGETPVSTRNTRISQAWWWTPVIPATQE AEAGESLEPGRWRLW
3251	11302	A	4196	2	112	
3252	11303	A	4197	36	172	
3253	11304	C	4198	1	1482	MVTHACNPITIGKLEPSYVIRKFLDAQRI HNLATYLQTLHRSQSLANADHTLILNC YTLLKDSSKLEEFIKKSESEVFHDVETA IKVLRQAGYYSHALYLAENHAAHHEWYL KIQLEDKNYQEALRYIGKLPLFQEAEQSNM KRYGKILMHIIPEQTOLLKGLCTDYRP SLEGRSDREAPGRCRANSEETPPFANNPRE LKAFLEHMSEVQDPSFQGIYDTLLELRL QNWAHEKDPQVKEKLHAEASLLKSGRF CDVFDALVLCQMEHDQDGVLYLYEQQG KLFQOJMHYHMQHEQYROVISVCKERIG EQDPSLWEQALSYFARKEEDCKEYVA VLIKHENKLNMPPLLVVQTLAHINSTATL SVIRDYLVQKLOKQSQQIAQDELVRVRY REETTRIRQEQELKARVKAMPPPGKVPR KENWLQCEWGSCSFVCSTMEKFFHEHV TQHILQHQHGSGEEEEEEEDDPLENSV NKDIRNKSAILPSRSNC*
3254	11305	A	4199	913	1299	ELIGVGKHAHTGGAGGYHFLLGMAAEVL SKFTAVLEGAGTAAFPATQHHRVVLADCF VFETIDCVPFLPHADK ITQDCRNRNSVPGAT HSAPTDNRKWSGISGMTFRLWKSRMQG PRSAWL*CACPHFCFLVW
3255	11306	A	42	1	818	MAGAEGAAGRQSELEPVSVLVDVLEED EELNEACAVLGQSDSEKCSYSDKAK VNSGNKYNDNFPGLYCICKRPPVDPFED VRELEVKGPGVTKISTEDDGLVRNIDGIGD QEVRKPENGEHODSTLKEDVPEQGKDDV REVKVEONSEPCAGSSSESDLQTVFNE SLNAESKGSGCKLQELKAKQJLJKDTATY WPLNWRSKLCTCQDCMKMYGQDLDVLF LTDEYDTVLAYENKGKIAQATDRSDPL MDTLLSSMNRVQQVELIC/GIQ*FED
3256	11307	A	420	1	1842	
3257	11308	A	4200	1	587	GAEEITWEPTDGSGSAAQDGQVQWCDLGS LQPLPPGLKPSSHLNLPSSTAG*RPCAL PGKVRPKENLWLQCEWGSCSFVCSTME KFFEHVTQHLQOHLHGSGEEEEEEEDD PLEEEFSLWAGMWLFLSQFCFLTSSAM SYFCHYHTKLKQWGLQALQSQADLGP DUGUSP A CTCSSU IS TTSCEVWMCYTCGHD

					IPGISRAGTSSLISLTSCVWGTTEILR
3258	11309	A	4201	262	409 RSGGRNISSRKSITAHRHSISAPGSISAQGSIPALKSILAHGSIPSQG*DTPGLWDAPMG* DALEGWDAPLG*DASRG*DTPMGRDAL SG*VVFSP*PSSWANALPCH*LPQMPFLT NVMPNTNPIASAELNCRGAGWQEWMCPLG LLQAPVPNHHSCPTASRGLRQLSSQL PETAKAAW
3259	11310	A	4202	729	922 WFTETIATQLYFNEILPDTFHCVLCLLCH FYINVKAFCCCCCCSCC*NTCSLIFRPTV YYALML
3260	11311	B	4203	306	392 LTSGTYPKSGKAVEEAQPNSPPAEDVRD R*
3261	11312	A	4204	965	1298 GNLVTAQFLVLCIPDESYLRSICFLLHHQ KLIHSVPQSPPRGWGTSLGLAGTPRCSPL PTPPRLLLPQPSRFKGATGKIPRDPDRTP VRPLGHKEPRGT*GKSWPAVAQPPG
3262	11313	A	4205	1	324
3263	11314	A	4206	310	513
3264	11315	A	4207	65	191 QEISIMVGFKATDVPPATATVFKLGGATA ACIAIDLITFLPLDTAKVRLQVRG*SLGVLM VSTLFFPQRHRPLKGOCLEHRDWRWE GQHAYPCSYPVLAQIQQGESQGPVRATA SAQYRGVMGTLTMVTEGPRSLYNGL VAGLQRQMSFASVIRGLYDVSVKQFYTK GSEREYGARV*AGNQHHGHWVQGHRCA PYCHCEVSGWGHSLCHRSRSHLSSGYC
3265	11316	A	4208	12	237 NFVYLFLKLHLGEKLYNNVYTCFNNLHF CTYILYNSTINQPKKITS*HLNKNLPCK KHSMGHYZKVVFKIFFK
3266	11317	A	4209	361	444 QRLKNNNCVITCS*QPRPWFSSSPQGLAA CHYRGLRSPQSRRGRLSHFSQCQVHPR SCQRGSAWSPRTTGQRGPVGTGRTKR RLNTAYLLGAASADILRPIPSTSR
3267	11318	A	421	3	377
3268	11319	A	4210	89	198 APP*THWKWIKPHPTSCDRSLSTCWHTTV DSTSLREK
3269	11320	A	4211	119	698 PTLMHLHYIPWGRGRLLGGWGQCGQSHSARCACTGTCLPMGTLMMHHEASRQVWVGCLPLPPFPYFLPPQLPS*LGPSNIWVAKD GWLRLDLDPP*YEWTLGVNWPSPGILAY WTVSAPSLGFSGPITDAALPCPYNLGGSS PHPRGRGSRFQKGTGLSLTEGNGLPFPPIPPTYPLPHLHRYWVPAVNEQMRCRK
3270	11321	A	4212	728	916 FFPPI*SV*KVSAQGYSLWPGVAAHYHF SILGGGGGRIT*GQEFTLGLNIVRPHLY KSGG
3271	11322	A	4216	162	528 LLPYGLDRGPYGGWVCGLPYP/SGTVST GPPQRTASPLPKQSS/GPQPFPAACTGT DAI*DARDAGDAGEGGSS/GAEPASSPAG AAGGGCGLAARSQVPSEIRSGWLKGSPLP QLASSGALVCP
3272	11323	A	4217	160	835 GCGGRRTVLIKDYQFFAEGRLIQFRWE NAAARFSALAPDMQRQNFRPTIPYPPG GGGGGWTGSNSFRGTPGGGGPRTALPSR RVRGVVRTRRRTGPRS*ARNGSKSLSAK RQLLSRGARFGSPSPGGYPGSYRSRPGS QQFGPLLPRAAADPPPRVLQGHJLHHILD QGVLEKKECLMSWKINFKAFKCLKIPW GWPTTQGICSGYKPNNTAILKHSQAKKE DIFC

3273	11324	A	4219	198	392
3274	11325	A	422	1	621
					MTKRCCLDHRGEWLPAGGGGGHTEGTRCL LHJAHPTVWVGEVDFEPQGMDLAEAS FTNDLGLSALTTSFSGKPKVWLGRHPT PKGNLDSEVLAQGLSPCPIPLAGLTVNGQI TGDKRGPSDKSTRKTYFGKLJIANAQAM DQFQEVETTEKTLGTRVRASTFSWLDVT VTQDG+APLQGLQGLQGGHSGQPCPQ NPGALSEPEL
3275	11326	A	4220	318	718
					YHHLQDIPGPNLRLVEGVSPVHPAVRP SACSCSPQFPFPPLSPHRLRARPRWERQK FTPSLDGNS*WGETPAAGCCSHIHPWOGP RALFRRSQ*PRR*AHMEGRVGRSPSL HPPWEKTPS*LSLGLTDRKQA
3276	11327	A	4221	1	563
					ETFSHHFERPYLQKAEPPLTSRGFVEKS TALHRSIAEHPEMSMSEVHEHALRQHQ AOGGLLETREKMHADNFTKTDRLHQA SSDAFSGSLRQTSGRYQQRQMVPREE KSTSAKSSVSLADATPNFSRLLNSNTV MEGSPVTLEVETGFPPEPLTWVVAYN DKP'MEINSITEKNHSVSTN
3277	11328	A	4222	366	622
					STLMLHQHLLSVLKLQLSQQLYVVFLL QSTLQSGTRVTFKLQRQAGAVAOAC ASTLEG*GGWIARAQEFTNLGNRARP L
3278	11329	A	4223	43	245
3279	11330	A	4224	634	1316
					GSGPHPSGKWMVDDSRHSDRVRSGS LTLTMVTECLSLQEFNSMDLWDHFHCYMR SHKAESSELVRNSHHTCLYOGEGAHII RAIRQRVRLRLTRSLSPIVEELIELPLQV EGGHYAHVDSGPVVP*TICSHTKLVAN ESVPFETSCRYMTVFLNNNVTGGETV FPVADNITYDEMSLQDDVDRDTRRHC DKGNLRLVKPQQGTSLLVPTICLMGKV GWVT
3280	11331	A	4225	506	708
					FLMRSEFL*KVFPHP*HS*GFPCVCSLMS CVG*LGEGEFGSTFTMFTFIRWFWMCSPDD GFEIPLIS
3281	11332	A	4226	1	1662
					MISIDACAFDEQZQCFMLKTLNKLQD GTYLKIIAIYDKPTANLJNQGOKLAEPL KISTRQGCPPLSPLLNIVLEVLRALARQEK EICKCQLQGKEEVKLSLADDMIVYPPENPI VAAQNLKLISLNFSKVSGYKVNQKSQAF LYNNRNTESQMSLPEFTIASKRKTYL QLTRDVKDLFKENYKPLSEIKQDNTKWK KNIPCSWVGRINIMKMAILPKGIASFITGY CIPKPEVILKLETGKEPWILEEKFRSOSHL EESPEYNNNGNSFWLNEIDLWVHKQKIN WQPEYNECGKAFFPENSFLVHKAAYT GQKTCKYTHEGKTCYMSFFITHQQTJIP ENHYECNEGESIYCEMSFFIPEHONVQV QNLNPTLIQRTHSISNIEYNECGTFFSD RVSCLCPG*STVARSQLSAAISQVKRSS H/CLCLLSTSVDRCMPCLANLICFCRON CAMLPLRVVSNS*AQNLLKLISNFNSKVS KINVQKSQAFNNTQRQTESQIMSEL.PFTI ASKRKTQYLGQIQLTRDVKDLFKENYKPL SEIKQDNTKWKNIPICSWVGRINIMKMAJ LPGKJASFTGYCIPKPEVILKLETGKEPW LEEKFRSOSHLPEESEYNNNGNSFWLNE DLIWHQKIKKRNWEQPEYNECGKAFPENS LFLVHKAAYTQGKTCYTHEGKTCYMSFF FITHQQTJIPRENCYECNEGESIYCE FEHONVYVFSQNLNPTLIQRTHSISNIEY NECGTFFSEKSLALHJQKRTHPGKPYEC HECGKTFITQNFTEHLLRRTGEKPGCNE CGHTFHOKLALVHJQKRTHRQPKPYCNE CGFPCVCKSKLIAHJRTGEKPYECNS GGVIRPALWDERSCGVVSAGTKR AEGFV

					WKGQGEEMGSIVERLVTLSK
3282	11333	C	4227	472	681 MNHKIYVYGHHTQFLYCSYFKRYEFY SNPTLQGFLCSPHSYFYKYLLLGRNLAI IILNIFAQWYQSL*
3283	11334	A	4228	2	277 RAEIPTAGEVWDGAGPMGAELKPWARQ RFAHMEDHVGPILLSPPPGRS*SPGPGRQR SRWTMLGPFSPRPQQAAVRGPRPGVLGSP REALEPGGARHPRAVTAAPRELQCGGST VRAVAR
3284	11335	A	4229	1	240 ALLGWVFVNLYKEITTTTPSFRRRSYILGF VKLYVSEHFHFVFWVLYYFL*MHCEKFY FRCRNAGRRSQIMYIVFLKSLS
3285	11336	A	423	3	2722 FSDGLCMVALSHLGSALQLGSLCFFRSPF RLLGKRSRSLPEGVANGIEVYSTKINSVTS RFAHNVVTMRAVNRADTAKEVSDFVEL PKTAFITNFTLTIDGVYTPGNVKEKEVAK KQYEKAWSQGKTAGLVKASGRKLEKFT VSVNVAAGSKVTFELTYEELLKRHKGK YEMYLKVQPKQLVKHFEIEVDIFEPQGIS MLDAEASFITNDLLGSALTTSFGSKKGGH VSKPSLDQQRSCPCTDSLLNGDFTITY DVNRRESPGPNQVJNGYFVHFFAPQGLPV VPKNVAFVFDISGSMAGRKLQETKEALL RILEDMKEEEDYLNLFILSGDGVSTWKHEIL VQATPENLQFARTFVKSMEDKGNTNIN DGLLRGISMILNKAREEEHRIPERSTSIVIM LTDGDANVGESRPEKIQENVRNAIGGKF PLVNLGFGNNLNYNLFENMALEHGF RRIYEDSDADLQLQGFYEEEVANPLLTGV EMEYENPENAILDLTQNTYQKUIFYDGSIEIVV AGRLVDEDMNSFKADAVKGHGATNDLTF TEEVDMKEMEKAQLERDYIIFGNYIERL WAYLTJIEQLLERKRKNAHGEKENLTAR ALDLSLKYHFVTPITSMVVVTKPEDNEDE RAIADKPGEDAATPVSPAMSYLTSYQP PQNPYVYVVDGDPH/FSIIQPEKDDALCFN IDEAPGTIVLRLIQLDAVTGLTVNGQTGAD KRGSPDSKTRKTYFGKTGASPMAQMFG PGWEVITEKITLLEQARCRAFFSWLDTV TVTQDGHFLASSRRLSMMINRNKNMVVS FGIDVTFVVVLHQ/CWKKHPVPTVDF LGFFVVDSHRMSAQTHGLLQOFOFPDF

					KVSDJRPQSDPTKPDATLVVKNHQJIVT RGSQKDYRKDASIGTKVVCWFVHNNGE GLIDGVHTDYIVPNLF
3286	11337	A	4230	1508	1686 IFFQPKECLYKNL*GLGAVAHACNPSTL GG*GGWIS*VQEFEFLSGNMAKPRLYKK YKN
3287	11338	A	4231	596	729 YFPFNKHGILCRVQWLSL*YQPPLWESEV GVILLELKSWRATAWATW
3288	11339	A	4232	1212	1344 ATCLSLIKEIQKLLIQNPGR*ASCDSSLL GCSPLSSHFTVL
3289	11340	A	4233	2	114
3290	11341	A	4234	1	326
3291	11342	A	4235	37	199
3292	11343	A	4236	3	263
3293	11344	A	4237	164	298
3294	11345	A	4238	60	152
3295	11346	C	4239	512	805 MSSLPLMLITDTQQAVSSGLWIGIPNYRUF TPTGTWVWRXPHATESLHKFNLNRTWEM GLQRRAVXTXGTNVKALESAQQPWNQ AGRGDNFLWRKGDD*
3296	11347	A	424	1168	1627 RAGRGGEGHKLNSYGGRRARSQGHLLS SALSALPVSAAASYQPQPNPYYVVDGDPHFI IOPEKDALLCFNIDEAPGTGLRLIQDAV TGLTVNGQITGDKRGSPDSKTRKTYFG KLGIANAQMDQFQVEVTTEKITCGTQRA STFSWLDTVTVT
3297	11348	A	4240	1	361 EPRMLYTRYVSDPEFVISRVDDFVVVLQ FRMSSPLMLITDTQQAVSSGLWIGIQIQS LTQPGSTIS*YCSFFKSVIICHLMT*YTTS SFRPCGLASQIPESYPAGTVWRAPHAM EKLT
3298	11349	A	4241	545	865 PNKHHPYKSVTILSLCAVLFLSLYIFNSGH FYFTSSIQFRHLNPKFNLFLYQTFVLRIK FL*II*QIKAEPLIVEHK*KIIYKKPYLFNT QVLALKR*GFLYIIS
3299	11350	C	4242	47	319 MVFHAKTRMKERTDAMQAESASETN KRAHPALPPVLPGXGRWARRGQEAPRP HLLSPQSQQGGQAPPWRERGVTRKLKG EGCRGR LAP*

3300	11351	A	4243	211	472	STLGGSLCAQSGCSPEPLPLRGPHPAMPV KCAOPLFSSPCPCLPRAAREGEOEIHA CWQFMHFLALPYLCVPSSWSWLYGTP CF
3301	11352	B	4244	1	1023	MCWAPSTRGGSPALHLPLLLLPHPLPAR CTGFRAPAVPSSPAGIFGHIAVIGSPFPTA GGNTSDSFNSNGCSQDVGSPRLCGCGCLLG VGIWLSVSQGNFATFSPSFPLSLAANLVI AIGTIVMVTGFLGCLGAIKENKCLLSSFFI SPVAEILLLILFFVYMDKVNENAKKDLK EGLLLYHTEENVGLKNAWNIIQAEEMRC CGVTDYTDWLPAGGEHGSRPLLHGR PRAAGATAPRLCGERAAMKRSWGMAFS MTLFQHIIHRTGGNHVHLGPKIFASFPPGA TDISSLGGDYIICDPKEKKYRKPKREPH LQ*
3302	11353	A	4245	630	841	DTGCPWRERGVTRKLGEGRGRRLAP* HLLPPKSSQPCAPLPTAGWLPREEKAEC VCSGPCPSPSYKP
3303	11354	A	4246	29	360	HLSIQRKEKSERERARESERE**RASERE RERGRDKIPTRKGEEVEQFLQTIHFFFLIF LIAFFEQYKFERGSY YRYRGKAKKKG RGEIEKNRSRNRPSRSFTGRKKRV
3304	11355	A	4247	253	451	NWSAGAALLSAAPAHTPSPHQARPTPGS PPSAALWGSPSPRSRSPHSPPTPDLMRPE RHPSAFT
3305	11356	A	4248	355	500	ARCCGMHILYSQIFGRLRWEHCLR*KVLS QVWWHAPVFADIWEVEVGALLEARSLR L*CAMLPPVNSHGPPTWAMQ
3306	11357	C	4249	175	387	
3307	11358	A	425	87	508	MGCFCIREGGEENLIIKKRFVSEAEI\DV RRKRRQEEWENVRKXPEDPEECPEEVYDP RSLYERLQEOKDRKQEQELRGTWSNCKN MVRGLDEDETFNLDEVSRRQELIEMIRH IEELIELNEYRIALWNVNGISYENYEGRG
3308	11359	A	4250	342	608	AGSGTIGMLRPADERGGQSRCRGSAAHPI SQAACPAPFLNRPFTGPS/CGPSVTSLRNT AGFCPE/GPGCPPSLAEASCPLPSCRAGS HWA
3309	11360	A	4251	56	277	TVSVQRHQAVQSPVVVFTEHIPQDAWC PSCAPGN*PLCPNTPKPCALQGQMKPL ALKKSLGGTVCCGSKRD
3310	11361	A	4252	235	721	DLADCSLQLQSRSSSWKKCSTMLQKVLL PPEAATLSHPTPRPLPHPPALGSPLOPPS NTFGP CCLSQDAPVFSPSPVKLHLVTPVA SSLANESRKGPSPRVSFRTPAPSSSITSIS DSGIQNATWWSGVRLSVSASSFGLLTSPF SASGVSLSVPLASTI
3311	11362	A	4253	1866	2283	IRILYRSPHLQLPCLTRFLVKKSYSVTGN WMVSLKD*SLRLDCWHGPLNLVKLDEV WQNQGTSTKSLL*NNFKNQILGKINTFKTL FGGGMKLIPCKVFSFTYLMVNLESHDST WHLOANOTPHFDVSPVLVLEPPFKF
3312	11363	A	4254	2	767	ELLFDFKSTMRRPFGQKASSLPPIVGSRK KGSGNDRHSKSTVGSSDNSSPQPLKRKG KKEDVNSEKLTKLKQNVKLKNSQETIPN SDEGIFKAGAERSETRGAAEVQEDEDJQT VEVPVDQRFPAEIVDEEDEGEKANKDAE KEDPSGMGNDL*EEGGREATDAPQVEE LDHSFQQPARVNVNGTDEENGELQO VNNEIQLVLDKERKSQGAGSGQDEAD DPQPRPRPEVKTISPEENNNQQNKDYA AVA

3313	11364	A	4255	79	928	TWQRCLNPNCLHHIPVLCSSLSSSTM/WDVL PLRGDLHLSCLDSSNWALFRQCSKVL YHCVEADSKGLRSVLDELTLNKTNLEK MESQTEKLNYLRNNHEEAGTQNNEFKV SVCQYLSRYGGGGYHYKRQSFHKTSQSK ELMGRHRLLTTIANRHEIAELRWTLQTL ELELQAOQWPLVRMLQQ*EP*ERLT C* R* RENQEPPVQVVEEQPRANTKETRKKSSF SQPMSASTKEESQDGRRKGK*LKGRARE GKMLHQKSLGKEYFEGRRGAGPTPSGPT VTQLK
3314	11365	A	4256	235	674	SGKQNNPQATAKAEACTETRSQMGATE TSSTFDYLGTASLKSPPHRKVVFCCFIIET SLHSNLL*ILLPLHSISNIQQKQTTSNLNIN LQPATAGPPSQAPPYTALELPGGRSAPEP SHAAPPARVPPPSSGSPPRNKAARA A
3315	11366	A	4257	60	471	CLGSLOQPPPITRVKQFSYKLCLPSFFFFLFF FGLFLRFSLCHR*AV*L*CSVLVFSSCFL CLGFAMVFVGSQL*FSSSLECFQALFLQT FLISPLFLFMNSN*PCIRLTEVVPRLSDAL FIFKNSFSCCADA WAD/AW
3316	11367	A	4258	392	517	MLTKDVVVAHACNPNTSGGRGGWIT*GQ FKSLANMAKPRLY
3317	11368	A	4259	446	767	IWYKSTHSSVIFKCEFFLQFLSQLSALSPR HECSGAIMAHCSPSLGGSSDLPAFLNFS WR*CLHYVAQPGLELLGLK*SI PWA SE SAGITGLSHIHAWKYELLF
3318	11369	A	426	90	549	QGASQQTTRSEI SCLGIAR*TFGLFVRIE RIDGNKLMLHIVEPVYTWTWGFPNLKSVRE LILKRGQAKVKNKTIPLTDNTVIEEHLGK FGFICLEDLHIELA FPQGHFQEISWFLRPF HLSVAHHATKNR VGFLEMGTG YRGE RINQIROLN
3319	11370	A	4260	119	342	ISICIKINNINIIYACVYVIIILCIRIYLSKYILL ENCI*CTILFVYVIFYVYIYLHIIYILLRLCPF FIYWSPV
3320	11371	A	4261	374	471	GKK*KCP THL SHLYINPGEKSYLFETSGL NF
3321	11372	A	4262	255	496	LYKFQTSPVPLT*FIIKALYITFYNSR*RG YYSKFKT*S*RPGMVAHACNPSTLGGRG GRIT*SQEFETSLANVAKPHIV
3322	11373	A	4263	231	417	CELPVTRHAGGCVCSSDTVL*PCPFSPV SQSPSVCLSPLFSDPCEEPYYPVLESPLDC SF
3323	11374	A	4264	1204	1398	ASFLAISMSVV RVGVPFYHLFFLRQSLIL SPRLVGVR*CDRG*LQPLPPGYK*FSCLG LPSSWD F
3324	11375	A	4265	581	705	LIAECGAHACIPSTLGDQGRQT*GOEFE TSLANVVKPCLY
3325	11376	A	4266	3840	4074	AQEYRGQLRQYSETMSLQKKFKNRSAG CGATCL*SOLLRLRGWEDHLSPGGRGCS EP*SHHICSPA WVT EQDLSPCIP
3326	11377	A	4267	173	421	
3327	11378	A	4268	423	595	SCLSI NFH LGQAQWLMVIPALWEAKVG RSP*VRMVSIS*FRDL PASASQAFNISH

3328	11379	B	4269	1	1224	MPVTVGKAQARRRTDTLLLDITQVLIDQ SPRKDTGLAQQTGVIVPSKGIVKYWRAQ LKGDMKYASPAFELFYFSVRAQSTDIV TLLDPITREDCDISSAPNEPVTRQRQAEV AGVGLLAVKVPRDEEGVLGGAPGPKQR SRVCGEPTLQRSSGLPVARPGSRCPPT SVSSVPPVEDEYGRTVVMIRLDNPGISGRT IENNPPELEKQLPGEPSENSPLYL GPPQVLF LLRDPREDVMLLNNQPTIAEKQAVLQ AAEFRNNEQISYNTSKGKKGDRECEEIA ETTFQIGSEAVPLDNPDWNSSSAEGWK RRHFICILEGLERTAKAFLNCSKLSMVD QKPDENPAAFMERLREALIEQTSLSPDSV EKQLILKDKFVTQSASNIRRKLQKAIGP ISTKNLLK*
3329	11380	A	427	215	870	RAPPNGLTDQQKKGKGGLRFKRLESFLHD SWRQKRDKVRLLRLEVKPHALELPDKH SLAFVVVRIERIDGVSSLVQRTIARLRLKKI FSGVGVKVTPHNLKMLRIVPEYVTVWGFPP NLKSVRELLIKVRGQAKVKNKTIPLTRH/S Q*VRSTWKGKFGVICLEDLIIHEIAFPGKHF QEISWFLCPFHRLSGPSYCQK*SGLPQGD GHTWAIGVNASNQLRQLN
3330	11381	A	4270	1016	1393	IFQLGEYIFLFLFSVFSMEHSVTVQAGVQ WCNLSSLQLPPLPRFK*FSCLSLPSSWDYR QMPPCLANFCIFSRDGVSPCWPGWSQIP DLKRSAAHGLPKCWYRRETTAPSML QNLALVPMQQR
3331	11382	A	4271	825	1246	RAEGFCPNWCQSNILIPCHDPGSRSQAQS DWACHLGWQGSGSGGNHGVPAGFDAL QLPGNTSRVGAPOQGGSGRGRKDGPQNS H*AHGTGWRECYGIDRSRKRNRFWHL APPRSEIFLILACTLRSRNGSASCPRSCFDS SFLRVPRTGRFWGSTWGVTPGI
3332	11383	C	4272	442	522	MRCASPTSKEFSCALLLQCWLQDGL*
3333	11384	A	4273	322	1025	PLLCVLLAPPEGAVGDICKKEDAGNMPS TSEGSIYLEMMAHFLRNKLADGSVRKPDG GFLWEGLRAWSNMAAPSGGVNCEEF AEFQELLKVUMRPIDDRIVHELNNTVPTPSF AGKIDASQTCKQLYESLMAAHASRDRV QKNCIAQTSAVVKNLREEREKNLDDDTL LKPT*EKRSQS*KWVQSELNVVEVVNDR SWKVFNERCPNSLQASKE*IKRDSFFFFF FLRTGSSHKS
3334	11385	A	4274	22	54	
3335	11386	A	4275	506	622	TRDSAHAYNPSTLGG*GGRIA*VQEFTK TRAHSYTLIPT
3336	11387	A	4276	296	495	KHVRPYITHSLGGKKDFLILEKIWLGIVIA HACNPSTFRGQQGRITA*A*EFKTSLGIVI RPCLYLKTT
3337	11388	A	4277	270	558	FWFLRFSFYVIRKHLIGHFHFWPRVLIK* KHGGWVKVHGGPQ*RQKGTGKEGRKG LRGRRELTEEGARPLFSSGPVESTQIVPLP QPPYVGAAAS
3338	11389	A	4278	51	113	
3339	11390	A	4279	179	387	ILVGFCCLFPSSNKE*JHTHHTHHTH*PH THPPVVTNRLSLOQICRKKGKQKTSQGPFTA TSLSPLSDSAV
3340	11391	A	428	476	821	IFTWPLFVRIERIDGVSFITWCREPLQDFA LRKIFSGVFCKGTPQDSKMLRIVEPVYT WGPFLNKSXRELIJKRQQAIVKVNKNTIPL TDNTVIEEHLGECYSLGVWSGRKPGSLKL
3341	11392	A	4280	464	596	EFSPGMGAYTRSPSTILEGHSGQIT*AQEL ETSLANRVRPCSYMW
3342	11393	A	4281	468	564	YAFYFRTQVPGGIRLV*CRLRVLWSNILK KQS
3343	11394	A	4282	780	837	

3344	11395	A	4283	993	1050	
3345	11396	A	4284	175	387	HFGAEAGWITRSGDRDHPG*NDETPSL LKIQNISRAWWQAPVVSATPEAEAGEW HEPOEARACSEAEFEP
3346	11397	A	4285	161	409	PPGVIYLYFVKVRLIWNVNMTV*VYMTL LSPPYQICITYYIKYVYILPI*NIYIYTHIC IVIPLFLCLLILAIKEGAFAFN
3347	11398	A	4286	1910	2120	SVSGFWLEAMLPSLSEGQPCLQPFIGN KSLTGWWVIAACNPSTLGG*GKWT*AHF FQTSLANMMKPCLY
3348	11399	A	4287	1156	1320	KNSS*FFYFLSYLKKNKNRPGAVAHTFNP NTLGGGWIT*YQEFEETSLANIGKPCLY
3349	11400	A	4288	1497	1767	PSASPPQVPIPALPQWVIGPGRQNP*CLH IGLCSPQPSDGWPWRKACSLFQVPSHQCQ RIRKKINVKVHICVFTASRVRWKPKA NDQL
3350	11401	C	4289	1434	1655	MKFKSHILKKKKFFCTLVPIIMLKLMEMLK SQCCTKEGKYCTLAENLFLHKHICPFSS DHRSHFSLELAIVVKKL*
3351	11402	A	429	33	370	ATRSRLGKHTRRSKSSAIQAVRJISQVLR CKQRCMHCPCRTIPATLQEHKSVNNSPAQ QRKTTWSIHTPAPPHPAPPHPAPHTSQ/HPH PST/PAPHPSTHQHLIHPHTSISIRTRG
3352	11403	A	4290	275	485	TNWKLSSLCEKLYSTHFCIDHKAVLFP* LSCFVLLCFLVFLVGFRLSFCFVFTT SVISTSFPLAVS
3353	11404	A	4291	889	1199	KKCVVCVCCVCKC*LLKLMVGNFRA LWGSEWFLLHHHLSTNRKMLSLQGHV
3354	11405	A	4292	502	768	SPCDQTPVEEGMLPKFRKSLQGFSLFN DILILPSQK*FCIRGSKTMYIWPGTVSHTC NPSTLGGQQGWIT*DQEFEETSLANKVKP RLY
3355	11406	A	4293	3	309	IFGRDGFHHVGGAGLD*TPDLK*STHLLG LPKWCWDYRHEPPCLARRYFKNNNNKDN LLSHHTHKTIVNLPFSSCTDVFHNHD VECNVFSLDLVNIFQSC
3356	11407	A	4294	204	317	
3357	11408	A	4295	1905	2032	VKHLDGTQK*GCNAFNVGQSGPGPDA PRWASRTPGGVNAGI
3358	11409	A	4296	2	225	KWQWTWLSFCSTFMSPSWSSCS/PPCSA QPYAPVSCDGPFRHPEPLLD*GRLKTY FPPCPCVNWGCWGQCVIS
3359	11410	A	4297	299	663	IAHITEIRNLILHSLNNPLWLEPTRIEKFSP RGKVTSLHPRVKKMPSPSSPKNSHPEEV GSASSFLREPSPGGSQSHSPYAPPSIDAM VPPYRV*TTPFGIKEDLKTKPLFWGITLL PCV
3360	11411	A	4298	1	406	MDWEGSLPLVFNYCRDASLIIHPRFKGV RPRDACLGPSPLAASPAPLFGKGQTID ELRVTLTVEDSARLHPGEINSHVAHTKP VWWSLHTDARETTHLQRTHFOQSWLV/ CIRP/MNPAAKSTVSSVRQT*APL
3361	11412	A	4299	236	768	VPCRESRALAIPRKEMMRA*NQNKT HDSRHCRISPVGNDMAIENNNSFKAEL GPNSSSASTPPPYNLFIASPPHTCSGLQFH STTDAELRVTLTVEGNRMSSVVRSSFLGL NOLKLAKSMMMAAYSIFEEPLASLYSNFH TK
3362	11413	A	43	46	511	QLRAGMAEGAQRQSELEPVVSLVDVL EEDEELNEA/CAVLGGSSEISEKCSYSQGS VKRQALYACSTCPEGEPEGACIGLACSY ECHGSHKLFELEYTKRIFRC/DCGNSKF*N FGMQLLP*QSK/DVNSGNKYNDNFFGLY CICKRPYDPDEDEIPDE
3363	11414	A	430	42	334	

3364	11415 A	4300	302	897	SVAKEGVVEVEVSHTCGLKWDGDIRGGCE GGFGLGEKAAMRCGCGSPGIVREADNLV KVSPSVLJJKGTDLPLSTVRVTRRSASV MVLVTPMLAPATFLRGNCWAGGGGLVTE *NCKPDQV*GGEMIKGL*GGG/VRGCGRI ET*LGLARSLGRRGEVRLVWRSGLTLPKY KYCAFPFTVFTTARPQDPLPCLAQWVPCP WSLAHC
3365	11416 A	4301	111	275	SRNETESRTRCEEGR**KDYRVEEQRRLR KNWDLARPGKEQFLPQFQSGNLRSQJLH
3366	11417 A	4302	3	220	SLQPLSREDLGRSQESLGPFGQGLWEW LPGEIPLNSPICSQGVPHRWDV*AEEWAAG SPWPGQGQISGTCSKLL
3367	11418 A	4303	2	347	LTMPLAPATFLRGNCWAGGGGLVTE*N CKPDQV*GGEMIKGL*GGG/VRGCGRI ET*LGLARSLGRRGEVRLVWRSGLTLPKY CAFPFTVFTTARPQDPLPCLAQWVPCPWS LAHC
3368	11419 A	4304	2	265	
3369	11420 A	4305	3	865	
3370	11421 A	4306	288	597	TDFSVRKCGCRTGPFLRLIQFDRIVGVEL IAV/C*RHGPRFSSCRLLSRRPFDKTCRL MCNQRLSGFPQEQTQDRSRCIQLFRQR FAAASCPTHQVLLQTOYF
3371	11422 A	4307	3	188	KPRRSRSSESGLGPFGQGLWECLPGELNSP SSGVQPRWDTA*EESWAAGIPWPQGGQID FWHL
3372	11423 A	4308	498	803	HGPQFQGLWEVLPGEIENSPISSGVRH WDVA*EESWAAGIPWPQGGQISGTCSKLL EEEVLEELGLAAAQAFQGSSCVLEMWLG FVSQWROGIAFTFYCIP
3373	11424 A	4309	3	338	KPRRSKESSESGLPFGQGLWEWLPGELED SPISSGVRHWDVA*EESWAAGIPWPQGG QISGTCSKLLGEFVLEEHLLAAAQAFQGSS CVLEMWLGFSQWRQGTAFTFYCIP
3374	11425 A	431	55	1078	SERRRGPLCLPSDSVLDLCSGPMPYCGIAE PSLRRWPQRSPLEASCRLLGCLAPIRH PNPPRPPIASLILQIKMATAAAAAAVAMA PPGCPGSCPNAVVCSFLERYGPPLDLPE LPPGELEVLQJAPPDPVGNGEVPKELVEL HLKLMRKJGKSVTADRWKEYIJKICQEP NSTWAWEIMEKKGYLLEMVSCEKKLALLK YLCECQFDNLKFKNINeedADTMRLQ PIGRDKDGLMYWYQLDQDHNRVMYIEE QDQDGGSWSKICIVRNRLAETLALLK AQDPVLLKNSSQDONSRESPSLEDEET KKEEETPKQEEQKESEKMKSEEQPMDE NRS
3375	11426 C	4310	321	734	MIKHQGKAAEFVRDRRQRQSFVSTDJKTCLL CLSQKMKMKGIEKRRERLKLKGKEVKWL REREKTRILRASVFGKEKPAAGERGKV WSDCSIHVLQEKGSQPSVLSLJNHRY SPRFNSVWSLKPSSMKELEVRKRCQ*
3376	11427 A	4311	867	1111	RHCRYGTR/ARCRSANAGAMILTMKQL AIVMRVYQHQVRRSMRPGRNGARSGMS AVGAYYSSCIRVMALQSCDDEAVL
3377	11428 A	4312	1	560	
3378	11429 A	4313	2	268	
3379	11430 A	4314	11	783	NLFLRPQKDQTWYHRIJLQGQTKHLLKE KVTTYLYATISF*DV*RH/RSAILAEAK ETKETHFIRGPFLTALPVTDWEGLSPVLFN QCRDASLJHPRFKGPRPRDACLGPSP AASPAPLGGKGRQLKTDTARLPWKPPDH HRRRASGNHSGRVVQPPSRLLPSVAHVEC LRLFQEHIAGSCQWIYRSGIWKTVVFMC VRVKRPNRLCVSNMAYVFTWVQVHYH LYENNKTQRLALRMHIVESLACQVRESS

TNNDNYY					
3380	11431	A	4315	177	434 LCLWLQPPF*E*IAGQVQGEG*SRNETVSR TQCCEGR**KDVREVEQRLRKRNWLAR PQEQLVPSSEKRDPLRVLKDQGRCPV V
3381	11432	A	4316	1332	1602
3382	11433	A	4317	797	954
3383	11434	A	4318	1	817
3384	11435	A	4319	3	93 LSPLS*AllSPVPCTYTPRWPEATEDPQKK
3385	11436	A	432	1	568
3386	11437	A	4320	874	1114 ESLGAQAEDYCRSGALTESLY*SSSKRK CGVGPVKQSSLYSTV*WSCGRGSLSFRR QNDRASSFQPQYEKSTEALPKGL
3387	11438	A	4321	264	1259 GDRWEGKKEDLGRVALGTETRKGLMC KRMPGH/AGTSDFHLSILQELFRSCRME KLK/RAJ/CPA/IWNYCRV/CIGVKRHCRRK *DA*ILQDLNNSCPKIDKWSEVPDVQAFF YTSVPS
3388	11439	A	4322	607	769 SQVLRPTQPKEHLANFKSEDRSRVPLSPS *AKSPVPTCTCSR*PEATEDPQKK
3389	11440	A	4323	495	658 GLTGTWAHFTHWL/VVLSHSTELSGC ERLCGPAELGTFTLWLF*RKPFADHWP
3390	11441	C	4324	218	352
3391	11442	A	4325	444	994 PMTHIPFFFFPAEVHEPNQRQAFVVPVSQ ARWTASSLSSVVAASSTSPOLEELQGST QTWHFSAATCSQQPSRCVETVDPSSLITQ QGLAFSAPTRGQAQRCRSARMAWNPGDP LPPPSVHPCTPHCP/GPPQOPPSASTPWG SCCSWGHQAAILGCRDRERCRGTCSSR WLPCLLPRFPDKW
3392	11443	C	4326	296	625 MVESEHTSPLAKSSASELHRTSWSTDNG MDFWRECQFRAKEI/QGENEALNKSSKR AQKLVSDLNMRQVRKKYIVNAGSLHH FILSLLSHLLKTAFCVLLQGNYLT1*
3393	11444	A	4327	221	344 KVLSDFCSVPFCVCVCVCVCVCVC L'LL*NNIIYGG
3394	11445	A	4328	441	656 AHNYTYFQRYIHHQTTYTDTRGRMRIGMR DQKKRPGTVIAHTCNPSTMGG*CRKTSQ GQFEFKTRLNSNTVRPNL
3395	11446	A	4329	409	749 RRGREKRKRHTHHTHTHTANLFVSVFLY FLSFLLLCALCLS*WM*RCSANPLPTGP YASQTFMILPSCTTVISLPCWHLLFPQYS QTLYSLFTELNGQITVTSAKITYTSKJ
3396	11447	A	433	1	572 ANNSPALTGNSOPQHQAAAAAAQQQQ CGGGGATKPAVSGKQGNVLPWGNEXT MNINPMLTNILSSPYFKVQLYELKTYHE VVDEIYFKVTHVEPWEGKSRKTAGQTG MCGGVRGVGTGGIVSTAFCLLYKLFTLK LTKRQVMGLJHTHTDPSYPRALGFMYIRYT QPKPLDLWDWFESFLDDEEVCQCG
3397	11448	A	4330	1682	2410 LNKGGQTDIASSQTCVGHVESDGAIHT TMIGNEPAFLSPENDNNCPIWQERWTII QKKKMNGMHHTHRNEAETIAGILTVCQE LPRKNTSLTVIDVHSHSVLFCTTIVQVLSQ VNHLYLPLPQAFKFPVIFHTSTGFLFTYV RVVMYNFVISYNGKNNQNI*KVICTEL FSSFLKMICMVRKRGQGPGRASREL TFYTFVLCTALLILHPIMILLEPICKKLLR

					KFICVYVNNNT
3398	11449	A	4331	2	57
3399	11450	A	4332	19	192
3400	11451	C	4333	218	364 MTRVSSCFSSDLATDRSFTHKGNNIVSSNS KISLTWMGFELKTQHKI*
3401	11452	A	4334	172	304 PSVFLAPGGVRAGNSLYPRGPGFH*PRF GFPFFPRGKREPPF
3402	11453	A	4335	258	509 RGHSKQQQRDIPRVLVDLHMNFNSFKVITVC RSLYSF1*KQAQVKLFLHLHPFSSHTH THHTKPTLLLTKPSSDSWVFRWC
3403	11454	A	4336	1	2411 MSLFGILCKCPLQNESQEESYNAFLPA VKVSMWDWLRLRPRVQEAIVDVERQYIW PWLISLNSFPHHEEDLSSISATPLPEEEFE LQGF ALRPSFRNLDFSKGHQGITGDKE GQQRRIQRQLISIGKWIADNQPRLIQCE NEVGKLLFITEIPELILEDPESEAKENLQCE TSVIESLAADGSPGLKSVLSTSRLSNC DTGEKPVPTFKENIKTREVNRDQGRSSFP PKVERRDYSKGITVTKNDGKDNNRK TETKKCTLEK1LQETGKQNVAVQVKSQT ELRKTPVSEARKTPVTQPTQASNSQFIP HHPGAFPPPLPSRPGFPFPPTYVIPPPVAFPSM GSGYTFPAGVSVPGTFLQPTAHSFAGNQ VQAGKQSHIPYSQRPSGPQGPMNQGPQQ SQPPSQQLTSLPAQPTAQSTSOLQVQAL TQQQQSPTKAVPALGKSPPHHSGFQOQQ QADASQKLWNNPPQVQGPLGKIMPVKQP YVLQTQDPIKLFEPSSLQPPVMQQQPLIEK KMKPFPMEPYHNPSEVKVPFVWDXSS YSMADNRSVMAQOANIDRGRKGRSPGIF RPEQDPVPRMPFEKSLLKEPKSELMMSHSSS FLSLTGFSLNQERYPPNNSMFNEVYQKNL TSSSKAELSPSMAPOETSLYSLFEGTPWS PSLPLASSHDHSTPASQSPHSSNPPSLPSSPT HNHNQVPFSNFGPQIGTPHNRDRRTADR WKTDKPAAMGFGIDYLSATSFSESSH QASTPSGTWTGHGFSMEDSSAVLMESSL KSIWSSSSMMHGPGSALEQQLMMQKQKQ QROGOTMNPPH
3404	11455	A	4337	17	300 TFKIYVYRNLFILKKSYMYATFFIYLYI YASFLLVLTIEFYIIISKEELLPVFIYQVYF PCFCLGY*FIYLLSSKNPPYNLFLILLFYNNF NN
3405	11456	A	4338	257	476 KAQMSSLDTLTHPVWLLCLKLCGAV*V KL*EYF*SIICNICTAICVCGVCLCIYVTC VCVRAIERKLKEECLS
3406	11457	A	4339	283	494 GQRCEPPPLPPSFG*DSG*EPPFPFAFQKA GGPASPSGPQGPQH*DPTGPASEWKMAT MGNRPPMEMVSQA
3407	11458	A	434	6	223 TVTNFGEISGTIAIEMDEGTYJHALDNGL FTLGAHKERIALKSGYKGKYLGINDEL VGHSDAIGPREQWEH
3408	11459	A	4340	766	1083 FKHFGPFHKHHMLVKIQNVLFKDGN FEVRRGGSRLSSQHFGPRRADCMLSSV V*SQPGQCGETLSLKKNTKISQA*WHV?P VVQATWEAELGGSLEPRRLRLQ
3409	11460	A	4341	2	163 FVFFVETGFHYVQGTGLELLTS*SARLGL PKCWDRYHREPPRPAVVEYFYSAALL
3410	11461	A	4342	192	440 ATWVEEPPCSPPPPIPRAF*WGPRPPECSS RGQKPKPAPYMSPPDAWRPAWLPSSTI

					YD*T
3411	11462	A	4343	1875	2210 PLSQVITGKHQKRKRHLLEEGKERPEKEQ SKHCRKKSYEVDLKDQDSRQRKREED RVKVSSGKLKHRRKKKSP*VYPPRKKN VSTGKRKRNLKKQGKRKCFGMSLFLG F
3412	11463	C	4344	217	396 MSEEETAKEVMRAYLQLRQETGLRLCE KVFDPQNDKPSKWWTFCVKRQFMNKSLSXPGQ*
3413	11464	A	4345	1	546
3414	11465	A	4346	216	324 VFFSSL*NEADRTLITYITLYISECLKKLQK VIKLG
3415	11466	A	4347	71	650 NPGAAKMPAYIHSILMDPDTKLGINJMAL LPIRSQFKGPAPRETQDIDIVDEAIIYYPK ANVVFQNYEIKNEADRTLIVITLYISEC LKETAKSGNSKKPKVEERKCFILGIH*FF PFTQEPGFFPL*QOFAKPUNKQEDEV M RAYLQLRQETGLRLCEKVFDQNDKPS K WWTFCVKRQFMNKSLSXPGQ
3416	11467	A	4348	552	872 SGPNCCCEADAQLAEEGSNASJITSFTV* VRPRACHACNPSTLQG*GGRIA*SQFE TNLGNTVPRCRNSGEVLNRKTVSIRRAL RVFSPLHTARLHPAAAARA
3417	11468	A	4349	199	375 FSLGLGIPPFHRRGNWVSRREWPGTVAHTF NPSTLEGRGRWIT*GQEFETSLNMVKT CLY
3418	11469	A	435	3	685 R10SGNVYFASTSVPPRPGAAAGPHILVLS RLOPLRAEVRSRLLRVEYSVKTTLV FKGTKAKSKKKKSKDKK*QREDEEETQD DIVGIWTVTNTFGEISGTIAIEMDKGTYI HALDNGLFTLGAPHKEVDEGSPSPPEQFT AVKLSDSRIALKSGYGYK YLGINSDGLVV GRSDAIGPREQWEWPVKUMGKMALSTSN SCPRINHEAEDIEAKSKTAGEEEMIKIRS
3419	11470	A	4350	368	546
3420	11471	A	4351	2	211 YYVIYKGIESRVSRAICTPSMAALVDJKR WKPKCPPLMYEWINKM*YTHTMNEYYE *KRKYCSTLSHATI
3421	11472	A	4352	1	676 PK*WGFPLIYKKKGDKGGGTWGGDVLPS SPLSQGGGKGWPKREGGRDLAERK AGKCREKWKQSKMKGRSRKTGERVK PPKHQDTGLFPFQIGGGGLRLSRVCVP QPQVGRGSVSLAQFLSCTSSD
3422	11473	A	4353	1029	1252 CKFVYSSLLFIYSSFFICLIFILPAPVLYIPLAHP*LCKPCSSYMSWVNQIYSLVFRHKCFRNIVQKILYSIKM
3423	11474	A	4354	299	561 FPSWQRDAQASLTSPAPIYPKATPFRKR PFRQLWNKGLIQSKLTLQRLYTVAHTCN PSTLQG*GRQMTWGGKFKTSLANMVKPRLY
3424	11475	A	4355	17	195 FMDAQVTFKLYIYIYIYTYYVCTYMIYIYT V*MCEYLFYIYIARIYMYI*MHYYTYISLTP
3425	11476	A	4356	3	565
3426	11477	A	4357	1	597
3427	11478	A	4358	1	567
3428	11479	A	4359	1596	12368
3429	11480	A	436	115	662 AGFSLSAQKSPGAMA*YSYVKSSKLVLK GTSSKKKKSSKEKKRKRREEDDEETQFD/IVGI W*TNTFDEISGTIAIEMDEGTYIHALDNL GLFTLGAPHK/ERIALKSGYGYKYLGINSD ELVV/GRSDAIGPREQWEWPVFQNGACAA VFVYIGSEKQSECSLLRSRAKYHGCTH GOQSSSLKQHPRWMY

3430	11481	A	4360	48	436	RTGSSGLSISATCLISQRYSSEDCWNVY SLVRSQ*ERGS*LLSTYVVLGSLPDVFY INSFQKTYLK*MGPGMV/VHAWNPSTL G*GRRTA*GRELETSNIVRPLCLNNNN NNNSNNEVNGIRKEG
3431	11482	A	4361	2	2551	
3432	11483	A	4362	322	1288	RKNWGLRKJPWSSLKQEQNLPESFGSKK AFPGSTWRKKDGEPEFOGSLGCPLLKAR PLSQLPLLRRAISTRKPGQTWKNKEHIL SDREFVFKEPQQVRRRAPEPRVIDREGV YESLSPTGVSRCVLYPGFVDVKeadWIL EQLCQDVWPWKQRTGIREDITYQHPRLT WYGEPLYTYSRITMEPNPHIWPVLGTL* NRIEENTGHTFNSLLCNLYRNEKDSDVW HSDDEPSLGRCPHASLSFGATRTEMRK KPPPEENGDTYVERVKIPILDHGTLJLIME GATQADWQHRSASQKNTLREPRVNLTF RTVYDPRGAPW
3433	11484	A	4363	249	906	RIHFPRVSGPSQSNSPKFAVASRGFFSLSLS SAQDPFLPPLGEALALSLHPVPRRSTET VAGDSSELOGLLRSQPOPLAGLAGFLARL FLFLFPP*RCKSKPN*NDRRRSSVDSQIHL VGRESAHPLAGLRCVSLPLLARCFQGV LQGVPGWLWPSPGGS/AGVSGRRRREERH MGVVVMRVRVEARVSS*ESK/SRALR*S THLGLPKCWDRREPPCPAH
3434	11485	A	4364	843	1186	QHSTKNSSGGVAQTFYGSQ/SVCVYIHT YIHYIFFFFFLVETESHVSTQAGVQWHN LSSL*PPPGFKRKFCCFLFSWSWDYRRTTP HPANFCIFSRDGVSPYWPGWRSRTDPLR
3435	11486	A	4365	127	601	NLILNVTWFTQLAKQERLHLRLKTSV WVVRKEKPTRPRLGAVSHCPQLLQL VLSPSTSCTLP*EPDDESP*PRRKGKPSW GRTGAPNHSPPLSPEGPWPAAWNPNLKL PPQHSSGAVPSSACSPWAGSPVAAAPPV CYLIWNLHSQALAH
3436	11487	A	4366	30	436	RRRGCCFPALPGSPHKPHEQLPPLCPRV PVA*FSSAHEPDPRAGKGGGRGL*AGS SPGAVPHPPSIPGRKNRMGSLEG/RGAP APRRGGSGAGAAE/ASL/TWPGSTGPAG SHOCSAGVQPSRWASLSPQRGRC
3437	11488	A	4367	497	924	KRGSRGWFFSTFHHLWGRLOAHLGGT PALQPCDPGAGARTARPQQTASAAPPL PPRGAGAPPRLDARVPAPPCCAQRAP PSSSQGRNQ**AASGPWPRPRAKEEKA SACKRRDRPVGARKTAEERDRRGQASG GQT
3438	11489	C	4368	226	405	MCKEQQPONTTSFOGGSYPKYTRGSLPELR QLLKVELFKKGKGNWEHLQPRSMILLVRSG LSQE*
3439	11490	A	4369	3	275	TSMYVGPVAKDLLIPSAAEENRKHTMK RLAQSPNSYFMEAASK*CYKITAFTHA QTGVWWVGGSTVLCQPTGGEARLTERC AFTRNQRF
3440	11491	A	437	1	380	GPPASVRTDSGHIPRERRAEGAVSTRTQAD PLAPCGPPRPAAGGQGAYARLRLLOCLLA AARPSSADGSPDSTSPPRLREIIMSNN FSLESHNISLTEIISMPVENNITLERPSNV NLTCQFTSGD
3441	11492	A	4370	266	455	AQWHTSIVLAAWEAAAAGLLEPRS*SRL KCTMIIPINSHCTPAWQHMRPCLLKKNP SNSFIISK
3442	11493	C	4371	409	507	MNTRFLTCVPGWVKNNDNYSIVCIDFPLV VIAI*
3443	11494	A	4372	870	1027	HLCMCVRVCVCACMCTLLHLSNGFII* CFCITST*AIHVMG*VAIKMYINDP

3444	11495	A	4373	1	690	FHHLEDSHIEFDAFLTLRKKKRKKHHNG NMPFSKLFHMVNPMKJSTSLETF*HKYMI VPLPQSQQYSSNGLSVLFLPVYRHSLLF MILSTLSFRCLANILSHSLFLIGLILNRSLS SM*SVLLIY**SYLLA*YLLTVLEFFSFHHI *VFSLLRILFFKJFTFSIWMPLSQSYLLR HSVFTIDVPLISYLLICVDFLNLTCFCSIG LFILGLTOHCLNSSSHIIHV*QSISSHLVQ* DCLCLHLCIFCALSCATTKTKNDVEIFIG LTM
3445	11496	A	4374	393	491	GLYLYHRRIPPHDKLLVQLSCPFFHR*THRGTES
3446	11497	A	4375	433	524	
3447	11498	A	4376	293	1228	NADNSLENFCRKSAASCDLFQRRFIRFJKL RRGFSERKQQHSVTRKYSFQJNQNVWLEK DNKALNTRVIVNRFLMMYKIQONTDD GDCRLLCSVIIYVLDLDRHCKKGSTC1DFFL MTNWCNYHAHFIDEHTEAQRARNQK QGDECEVGGIESRRSGNSGARYVHDSS PPTSGHNSNARPSVRLFLATLSKIAFLLT SLLYEMTVHIVYGEPLPQRQRTQLEGVG TLNGSVASVDPVFRNQOLHLATGSLMA SSFCPSVLRLEIIGOSLIMKTL*ITHTHTH THSHHTHTTERERERERERERERERERVKE
3448	11499	A	4377	953	1317	VLTLGVSPLYVSKGFWFFFLLLFS*TMFSH SPTWAILESWSLLARPSGMGEPQMTPIG LQYLA*G*RPNPNTLVPTTEI*VYFFFLP LMSQ*MCMLMHFLPLPQTCQIQLQYFFPM AHIST
3449	11500	A	4378	9	359	PRAEKALRIFEKVSVTADMAEDMEKLRR LKKVHIRELVLAISIMPKTHKPMLTLRVT WREMLRUPRDLK*EVEGGCRRCSSSPR/V DPFGGRREFRGGVVRGRGSAPPGGPS LSAML
3450	11501	A	4379	223	458	CLRRINPCSPRCCRPAWRRRPGPRTRR RTDS*IRPKSGAASHPPGGAEIPRGCQS TRSRRRRPEAPASRPCCLRI
3451	11502	A	438	3	217	RVMMSHRKVSAPRRGSLGFLPKRKRSSRH RGKVNSLPKEDLVHPLHLTCYLEDSPAP ADIVRNVYKTGGSAMN
3452	11503	A	4380	887	1172	FPPESELAQPEKRF*VPGKGRGLSPRLLL PPCRPRAWRRRPGPRTRRRTDS*IRPK SGAASHPPGGAEIPRGCQGTRSRTRRR PEAPASRPC
3453	11504	C	4381	22	255	MPSSSAQLLPHEVSPVLSQLCFLKITR VCSYLWATVILGLDYCNSLIPCLVSYFLL SLSLCISVVFRTQQLIY*
3454	11505	A	4382	23	361	LTTLFAGTPGKKRGGNQWR*SPHYSC SGGTGGRPRPAFLPGAPGQSGQISQSD WRRGCPSC*SSGWCNSC/HPGWPGLVRGG MTS*WSYS*ATGP/GPYKJAIPGAS*RST SL
3455	11506	A	4383	2	310	PILLPAHPPPWSPVTS*PRCGSPQRTSSW NRIHSRHPA*SLPCLGFAGTPGKRRGGN QWR*SPHYSCSGGTGGRPAAPSLPGAP GQSGQISQSDWRKGCPSC
3456	11507	A	4384	1021	1565	PHLSAGTPILLPAHPPPWSPVTS*PRCG SPORTSSWNRHSRHPA*SLPCLGFAGTPG KRRGGNQWR*SPHYSCSGGTGGRPAP AFLSPGAPGQSGQISVPPCRVPPLLQSER AGPSPSFSKWLWYCSHHILPPLLYAHQ ESLSNTQQRLEASLSSLNASEPITAKCPL GTAACLLGD
3457	11508	C	4385	361	612	
3458	11509	A	4386	448	683	VNNMERKKDLTESSLPAPVPTKVPGMRMK LS*TLKTSLATRCQTLTSRLCSPPTNQRQLS QQEGVGVGKEGKELRIYLMAMWIK

3459	11510	A	4387	1977	2160	VNIMERKKDLTESSILPAVPTKVGPMRMK LS*TLTKTSLATRCQTLSRLCSPPTNQLRS QQEGV
3460	11511	A	4388	145	370	GRVLLVLFCFFETESRSVA*AGVQWRHR GSQ*ASVSYELEAAVGYGGTTALQPG RQSRALYLTKTCKNFLNLS
3461	11512	A	4389	248	452	GWWFTMLARMVLQ*NHLNPGGGCSEL RSHHCTPAWATE*DSVSKKEKEKMR NETKTKWTCSPFT
3462	11513	A	439	24	452	APSPDAMG/HSLWGKVNVVEDAGGETLG RLLVVYPWTQRFDFSDGNLSSASAIGMN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
3463	11514	A	4390	141	354	ARWADWPLPLGIANC*PRAHALAYLETWEL EAHWKRTIVNFVCVCLCM*VCLVALR LFCSSGMHHFSNRLAQ
3464	11515	A	4391	354	592	IRCTQAFALTSVVSGIGTVVAIASNPSTL G*GGQIT*PREFKTSLGKMAKPCLYKNL GRHGDLCLQARLLQLAEEVGF
3465	11516	A	4392	63	353	ATEPVWPPCLWPQPLCAKDCRGVARP* CVRPKASILVLSFSSAGNASSIFMDYKCL SPCPFKQFLSSPPQSTEPSPACELGLINVN LSSRPSPSR
3466	11517	A	4393	357	559	LILETGSVCVCFQAGVK*LCITSVIAHYS DLGGSNPPTSDSRVPGCGDVHLYSQVD AAANLVVAA
3467	11518	A	4394	1048	1599	CRSKWGLASILWLSFSLGGHHLGGDGFK A*FKFHHSKFTVLASSKCCLLGVF*SHNYG *VRHFLFV*FHF*KDFKSMFPRVLVLS PQAILPPWPVKVLGLQVLANCICQPMFH NWFLKSSKWLRI
3468	11519	A	4395	24	452	APSPDAMG/HSLWGKVNVVEDAGGETLG RLLVVYPWTQRFDFSDGNLSSASAIGMN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
3469	11520	A	4396	38	553	APSPDAMGHFTEEDKATITSLWGKVNV EDAGGETLGRLLVVYPWTQRFDFSDGNL SSASAIGMNPVKVAHGKKVLTSLGDAIK KHLDDLKGTFQAQA*SELALVDKLHV S*RTFKLPGEMLLVTFRWQSHFRQCNFT PEGARLSWAERWVTWSWPVALVPLRP LKLNC
3470	11521	A	4397	74	432	TITGLESCSNNACFGALLPHPPAPGE*R PWS*HFTRYLGPLNRCAWEGRG*TQPG LPSLGKALVEGIPSESPGPTVSHPCCSRP DPDQSAASLHQVPPPTVHCSHLTLPMG WPGPQ
3471	11522	A	4398	1	176	
3472	11523	A	4399	1	188	
3473	11524	A	44	275	403	FSHFWPPEFLRD*MWLGV/VAHACNPST LGGRGWIT*GQESET
3474	11525	A	440	37	527	APSPDAMGHFTEEDKATITSLWGKVNV EDAGGETLGRLLVVYPWTQRFDFSDGNL SSASAIGMNPVKVAHGKKVLTSLGDAIK HLG*SGAPFAQA*SELHCDKPMWDP ENFKAPGEMLLVTFRGQSHFRAKNFTPE GCKASWAERWVTGV\ASALVPSRVH
3475	11526	A	4400	1	118	
3476	11527	A	4401	1	227	
3477	11528	A	4402	1	157	
3478	11529	A	4403	1	133	
3479	11530	A	4404	1	169	

3480	11531 A	4405	1	143	
3481	11532 A	4406	1	89	
3482	11533 A	4407	1	166	
3483	11534 A	4408	1	190	
3484	11535 C	4409	21	218	
3485	11536 A	441	68	398	GPASNRALGFVVLLTRMVASDPPPTS TTGSTMCECISIHVGQAGVQMGNAWC LYCLEHDIOPSGTMSHKALWSSDNFSN TFRETQPGRHVPGLSVDLEPAVIAQ
3486	11537 A	4410	1	206	
3487	11538 A	4411	2	185	
3488	11539 C	4412	247	393	
3489	11540 A	4413	1229	1784	RCRREMGSLSHSVVMDSGLWPCWRG PGSRSTNTVENRNPPPPRIPLQLFLFQ SLSLHLSLS/CLSLSTSFFQSLFLNLSVSLC QSLPSPL/CFSIPLSNHTHTHTHTHTHT HTHTHTHTESGRC*SVLFFFPCPVLYHYR *G*GVGSAALSLPLTPHYEMTVFKGNLLY LPAVISVRVNL
3490	11541 A	4414	76	297	EIRTLSSRSSQSLWRRDDVRWISGSCLEGH ASDHQLCQH*CTHTHTHTHTHTHTHTHT HTHTHTHTHTHTHTPKMA
3491	11542 A	4415	48	327	EELAELRRQRQELAQKHGDPGDAAQ QEAKHREAEMRNSILAQVLDQSARARIV SEQGLIEILKKVSSQTEKTTVKFNRKVM MDSDEDDDY
3492	11543 A	4416	786	905	VSEOGLIEILKK*CQLTEKTSTVFKFNRK VMDSDDEDDY
3493	11544 C	4417	58	237	MAEEELAELRRPEAGRAAGPNTGDPGD AAPTGSQSTGQAEMRNSILAQVSGSSPA PGPG*
3494	11545 A	4418	115	432	LSK*CNKYHTHTHTHTHTHTHTLNLQPL K
3495	11546 A	4419	10	398	ENTVFGLLKQQTRNHLPLK1K1CRLK1PP LTMPSPPPSPFRKSPDLVPAHTPKGR1LW WPWPGPGPSKAAHARRPLSTCQD*PPO REILPGPQOPTSPTHCRMSREGRSGGTGAR ACQLPLLRPLAS
3496	11547 A	442	3	398	
3497	11548 A	4420	551	792	DNFFFHIDRPSLCHPGWTAVAGSRLTAT LLPSRFKRFCLSLPSWSWEYRPLPPY PAN FCSKLICLSTFYYKDCGNSA
3498	11549 A	4421	56	193	
3499	11550 A	4422	1	3552	
3500	11551 A	4423	373	593	KKSLESINSRLQLVMKSGKYVLGYKQL KMIRQGKAKLVLVILANNWPALR*SKRLNV LRLPRIHRERIYRSVNL
3501	11552 A	4424	118	206	VGGPRPSLQRGRWVARKEDEKSRSWEI NSVRLQLVMKSGKYCPWGTSETLKMIR QIKGAKLVLVILANNCPALRKSEIEYYAMLE KITGVHLYSGNNIELGTA/CGKYRVC LAIADSGL*PFI*KACPEQTW*KEDEKS RWEINS
3502	11553 A	4425	1134	1287	HGQINQMEVNLPLMDRKV*HTHTHTHT HTHTHTHSSTSCTPYTLKRNKVK
3503	11554 A	4426	102	443	SPILPLPITTINILVYVILLAFLCIY*HYLY IIFFTNIVSYTTCPTCIVFHLYIVNIIYV SLKNFTDTCCSLWKRISYRYAKRKYNC KSHLPEINAFTLWQVSFOTL
3504	11555 A	4427	263	615	LNVSSEGNIWVKLCHELQHGPGLNSSPFL LSHSEKINRASIMLKRKYKLINNYYLASF NPPPGKIHHTHTHTHTHTHTHTESQKV ST*EIT*IPFQQYTNLCoreEHCYFLSHSE
3505	11556 A	4428	839	963	CVNGLVLGQAOILRPPVIPAL*EAEGRL LEPRSSRSAWANM

3506	11557	A	4429	526	710	MGVWLNILTPTFGDQSALKLQLQFKPAR HEFSQSGRTSFFPMSPRI.PDVA*ENPN SLDP
3507	11558	A	443	1	255	
3508	11559	A	4430	2	539	
3509	11560	A	4431	920	1110	TAVVFLNKLQLHF*KFLSEAFDNEYGIA YNSLSSEILERLQKIDAPPSASVEWCRKC FGAPALI
3510	11561	A	4432	38	571	GSHRRCFSFTINYVHLYIPTLYIYIYIYIY IVYIYQMHSPPAHSVTPLYGNTLSATLE RPVTPAVVAVGFRVRSEKQLIVYEGARP RG
3511	11562	A	4433	145	675	NVAVASLSGAHTWKKQSQVCFVSAGLE TSMEEAIGDLSVFPQSLTQLEGIQGLVPE VQ,A*ASSWSSR*AHSQGPQGHPSYHRSH LKPTRNRPERSQMEAPSPKPLDQPVPE KRHRGASAMRRRKPIISFGFLAEMLHVLA VREIELTNCPHPEPNLATGKMTWL RSSS GFCESNRV
3512	11563	A	4434	328	333	AFFEKRIDLTFKSSFAGS'L*E*LHHTHT HTHTHTNTCFLTVMKELSNHPGNK
3513	11564	A	4435	1461	1710	SGVGLRAALLKPPSARSSGSSLLSLR LSSPGPLSSPSLPCPTSQDRGIPFQTFLHN VALT*AAHEDMDWREPCVKTRTGS
3514	11565	A	4439	3	451	
3515	11566	A	444	2	732	YLVSCFRDMAFNFGAPSGTSGAAATA APG/GFGFGFTSTAGSAPSFSAPTNTG TTGLFGGTQNKGFGFGTGFGTGTTGTTG LGTGLTGLFGGGFTNTQQQQTAVGYS CMPSNKDEDGLVVLVFNKKETEIRSQQQ QLVESLHKVLGGNQTLTVNVEGTKLPL DDQTEVVIYVVERSPNGTSRRVPATTLY AHEFAQNIKTQQLQGLGVILSMTTRTELP AQIKQLLQNPPAGMFLQSQQ
3516	11567	A	4440	26	529	NSTD SERTHPWLSPADKVNKA\WGA KVGAHAGEYGAEALERMPLSFPTTKY PFPHFDLSHGP\AQVKGKGKVA\DA.LT KAVAHVUDMPKRCRCP\SDLHAKHLR VGPGSTFKLL\SHLPCLGEPWAAHLRPPS FNFWRLQRLLPWGSFLGFLKHRCCLNLP NTR
3517	11568	A	4441	294	600	ISCFCLSETLSNFALFLKESNGPVKVVWGS IK/AMTENL,HGFHVHEFGDNTAGRVLC FLECIWEL*FII*FLFLLINRNCITSAGPHFN PLSKRHHGPKDEER
3518	11569	A	4442	517	758	
3519	11570	A	4443	80	725	SPAASGGFPQLQSLEPRTLGRGLSDFGDRS PVCVLKGRRPKCRGJINPQEOKCRESNGP VKVWGSII/KGLT*KALHGF\HVHEFGAD NTARLYQVQGPHPNPLSQKTTVGPKEKDE ESHIC*DLOCDCDLTKNGVADVS\EDFV NLTQGD\HCING\GRTLWVWPKKPDDLG KVGNNEESSKT\GNAKGSVWPCGV\IGIA RINIPLOCSSLRPPKLCIVSC
3520	11571	A	4444	415	635	
3521	11572	A	4445	2	478	MAGKQAVSAASGKWLWLMGIRKWWYNNAAE FNKLGLMRDDTIYEDFDVKEAIRRLPEN LYNDRMFRKIRALDNLKHKQILPKEQWT KYE/EGLCSSSAI.CFLR*KDQPIECPSR SQEEL*SKLSP*TAFT*AKENFYLEP LK\EVIRERKEREWAKK
3522	11573	A	4446	323	400	
3523	11574	A	4447	2	396	RPPTTTKFAAARQMAQKQAV*STQAKG LNG\IFKKWYY\NAARIQNKLGLMRDDT IY\EDDEVKRSP*EDFPEPNLYNDRMFRH EGHWTNLKHKQILPKEQWNT\FECKNFY LEPYLKE/VLFRERKEREWAKK

3524	11575	A	4448	3	314	OSGTSAKAFRSIWPGLPPVHRHGSPPRSSVQR/DGPGLTGEPVVYIRNKVANTVPGAPGPSIGVVTAPATDYCIRJAPILAARRRRRRRRRRGGGGVAGGGGGG
3525	11576	A	4449	5	340	OSGTSAKAFRSIWPGLPPVHRHGSPPRSSVQR/DGPGLTGEPVVYIRNKVANTVPGAPGPSIGVVTAPATDYCIRJAPILAARRRRRRRRRRGGGGVAGGGGGG
3526	11577	A	445	2	681	AREGSALRVAGVTYLVSCFRDMAFNFGAPSGTCGTAATAAAP/GNTFLPFGGF GGFTGTTAGSAFSAPINTGTLGLFG GTQNKGFGFGTGFGTGTTGTTGTLGLTGLG TGLGGGGENTQQQQQQTTLVGLFSQPT QAPTSQNSQINTASALSAPTLLGDERDAI LAKWNQLQ/AFWGTGKGYFNNNIPVVEF TQEONPFCRPFKAVGYSCMPNSNKDEDGLV VLVPK
3527	11578	A	4450	1	117	
3528	11579	A	4451	1	1973	DGGARARGRAAARRRRPRRRRRRRRRRRRRRRRRRRRRRRRRLGLERPQPTSRGR APAGSRAEEKMEELVVEVRGSNGAFYK AFVKDVHEDSITVAFENNWPDRQIPFH DVREPPPPVGYNKDINESDEVYVSRANE KEPCCWWLAKVRMKGFEFYVIEYAAACD ATYNEITIERLRSVNPNKPATKDTFKI KLDVPEDLRQMCAKEAAHKDFKKAVG AFSVTDPPENYQLVILSINEVTSKRAHM LIDMHFRSLRTKLSLIMRNNEASKQLESS RQLASRFHEQFIVREDLMLGAITHGANI QOARKVPGVTAILDEDTCFTFIYGEDP DAVKKARSFLEFAEDVIVQVPRNLVVIKG NGKLIQEIVDKSGVVRVRIEAENEKNVP QEEEMPPNLSLPSNNSRVPNAPEEKKHL DIKENSTHFSQPNSTKVRQGMVPPFVFG TKDSIANATVLLDYILNLYLKEVDQLRLE RLQIDEQLRQIGASSRRPPNRTDKEKSYY TDDQGQMRGRSPYRNRRGHGRGPQYT SGTNSEASNASETSDHRELDSDWSLAP TEEERESFLRRRGDGRRRGGGGKG/QGGR GRGGGGFKGNDDHSRTDNPRNPREAKG RTTGDGLQNTSSEGSRLRTGKDRNQKKE KPDSDVGQQPLVNGVP
3529	11580	A	4452	1	2115	
3530	11581	A	4453	2	424	
3531	11582	A	4454	1	456	RPRRPQREPTMVLSPADKTNVKAAGWK VGHAHEGYGAELERCPCLSHHODLLS/HFLSHGSSQVKHGKVKADALTNAVGV HVDDMPNALSALSALSHAHKLRVDPVNF KLLSHCLLVTLAALHPAETPAVHAFLDKFLASVTVLTSKYR
3532	11583	A	4455	25	640	EFIRLRENPPWCLSPADTKAQRPPRLK LGIAIAEGYGGPELERMFLSPPTTKDLLP ALRJP*ATVSAQQ*RAHGKVKADALTIN AVAHVDDMPOTALASAPERTCNGAQAFAW GDWPVQLSSS*SHLPCLGEPWAAHLLPRP SSTPGCKASLGTKPFGLFVEAPLLEPSK LPLKLGSLRVGHCFAPLGLPPSPSSPCT RTPVVF
3533	11584	A	4456	906	1046	PDIHINWSQ*TTGAQRQT*KRTVKEV*S AHNEAMCFGTCASDCLYR
3534	11585	A	4457	1	383	MVLMPVVSIAPEAEAKSSLIENDVCLSA KENHKSKRATRTRAERTFTE/SPHD/YPRK TARTGLRHAQQAISLUPNWSTPLAARIAP VPPAANPQGVLLKSAAGPHI.JLLARTTC NR*VPIASPCQITHRME
3535	11586	A	4458	1	1509	
3536	11587	A	4459	579	919	PGSM/IPLSVSHSTGDDGRSLPKRRSTAPS MTSVYCFPNERCLVSCSCLLSSLLGPCL AVLLAPFFAPFF*VFLLCVVAGLPALLL LLVSSLLFLVLLSPCAASACFGFLSV

3537	11588	A	446	1	459	HRRPLYPAGIARMTRGDRTRTGCTRPKG SRTGGAVGAAMQEIIGSVVDHIFKFDEIAV EQQLGAQPLPFFGMD/KTIPDSQAPISTVV GLLPSLGLRSSLPRIFGPLRLFESGAAV CEFLKAAACGKGGMCPFRHISGEKTVVC KHCRLRGLCMN
3538	11589	A	4460	1477	1691	VCNVSFGANLERA*TSFSALFIDLQPPGV RTTTSKHKVSSLIKGHVLLDHSFHDLN QLWISTNAFRPGN
3539	11590	A	4461	1076	1354	QCKCAVNLLHS/PLITKLCRLFASCRAAR CCSHLTSQPVTA*LAGKVNPPLGNLWE CDTKAGSQAMRTHLSITWRVAMQLPVI NTTYQRGKR
3540	11591	A	4462	880	1242	
3541	11592	A	4463	832	1386	
3542	11593	A	4464	46	492	HPVTLDNTYRTHIKOLIKGEVLFHLHFTP DAVDVFRTT/MTLPL*RLQLOSSQRADQ RTLRCRSVGRDRAVHAAVWQFV/CIRLDUE VTEAVIFQPFPQLSDSETVSQRQCVDVGTL FCRQYTFIIRRIFYFAQMSNTLRLFDY EEJIDHRQ
3543	11594	A	4465	7259	7441	IAPSGW*RQECCSSRSCAQCCQSTTICR HAKQRSLSLAHPLAKLAGNQITPRLRQ ICR
3544	11595	A	4466	538	1056	
3545	11596	A	4467	1	1134	
3546	11597	A	4468	745	1263	
3547	11598	A	4469	3506	3826	EVWRPARRSRDVSCSRSHAYYVPGTA DWLWPS*RPSTTGVCO*PVTWRWLEGO WTPHLGRVLOQEDSDSPFTPSALGIQE EPLKSPREVPSTSRTGVFHYPVA
3548	11599	A	447	1	811	DGTMEDSEAQMATALIEQRQLAQEEEN EKLRGDARQKLPMDDLLVLEDEKHIIHHGAQ SAALQVKVKGQERVRKTSLDLRRHIDVG GIONLIELRKRRKQKKRDALAASHEPP EPEEITGPVDEETFLKAAVEGKMKVIEKF LADGGSADTCDFRRTALHRSLEGHM EILEKLLDNGATVDFQDRDLCTAMHWA CRGGHLEVVKLQSHGADTNVRDKLLS TPLHGAVRTQVEIGEHHFSLGLLENNAR NREGDTALHADGRVNRYPLQ
3549	11600	A	4470	1	751	
3550	11601	A	4471	482	1200	VFSGPFGVGFFPSGLCPCELSATVLEV APPLLPGNRMSSRITMLSESCQRMVIVG YGRCFADRNQNLVCLRSMPNVFTGSCA RMR.CCLSENLPVPPSKRAHTGRVAVKE SNQRCWCSDFGFFCICDNGERLRTVFA CCDREALHWAVTTGGFNSETVQDVMLG AVERRFGNLPLSPSPVWREGVVFVRNIDE EFGNEAQATGMLIHHQLDPSVGEELHQ TGSTACCRADSTHISHWRFM
3551	11602	A	4472	1271	1681	TVITTGIGRPFSMESVFALNLAQNSMMIF TPC*PRAGPTGGLGCTSFSDEFLDGVPP QSSLQMLIRMCFSVYTMLSESCQGMIVG YGRCFADRNQNLVCLRSMPNVFTGSCA RMR.CCLSENLLYRHRNGHIIQAEWP
3552	11603	A	4473	739	1257	
3553	11604	A	4474	1	2661	
3554	11605	A	4475	1	2370	
3555	11606	A	4476	421	972	
3556	11607	A	4477	766	1073	HRQLVIVFQQPLVSGFHEAELSLDDAKW VLHPGPDDAGFHVDVDRFVLA!*CCFK VLTLPGRSAISQSTPPRPAVPLGSR HRLRQIAPLAHDADYPAD

3557	11608	A	4478	1662	2045	PTALAAFSRRIVRITFLPVGDPGFHQSGS LRLS/NPDALQIQPACRIFSSALITSVFACS VHEGE*LPVDPGIIJRALLHR*R*KAESAC AVPC*AWTDREYGCNRRKSGVILRRT DDWMGDGRRSRHT
3558	11609	A	4479	I	1803	
3559	11610	A	448	100	1532	BARRRNWGAMGKARRSSPPGHJRHCEGGF NRHCHIPVEPNITSCLVISCHLLCGATFHM CKEAEHQLLCPLEQVPCLNSEYGCPLSM YRHKLAKHILQACPASVVCCSMEWNRW PNVDSSETLHENIMKETPSEECLDTALAL QDQKVLFRLSKMVELFPETREATEEEPT MNGETSVEEMGGAVGGV DIGLVPHGLS ATNGEMAELSQEEREVLAKTKEGMDLV KFGQWENIFSKHEAASALTNNSSACESK NKNDSEKEQISSGHNMV EGE GAPKKKEP QENQKQQDVVRTAMETTGLAPWODGV ERLKTAVDAKDYNMMLVHNGRMJLHF GQMPACTPKERDFVYVGKLEAQEVKTV YTFKVPVSYCGKRARLGDAMLSCKP HKAVDTSDELITVEDLPKSDLIKTLQCA LEREIKGHVISERSRISDGLFMDFAQTQYN FEEPEQISSGTELADLTAAATPGGLHVELHS ECVTKRHN
3560	11611	A	4484	875	1075	
3561	11612	A	4485	2097	2179	
3562	11613	A	4486	4274	5255	HTLFGDKLCTVATLRETYGEMADCCAK OEPERNECFLQHKDDNPNNPLRVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVL* *FFKEVFDITKFYTAKNMKIDILKFET GYNLSQKFDFDKFNVFRRYYVYMVVIID FVLVSNIIIPKFNHLCTHTHTHTHLLTLFST YLNKNDRDKTMCCKLSSIG*LESLEFGGS GENVDYNYFCNIVCYRK/ADCISFLKFR YLYEHIARRHPYFYAPELLFFAKRYKAAP TECCQAADKAACLLPKVLCTRIEKSSL SNLILSILWLDLGTLSV
3563	11614	C	4487	102	230	MFLSCRSVXXXXXXXXXXXXXXXXXSPLF LSPLLFLFHHTYMR*
3564	11615	A	4488	2	567	
3565	11616	A	4489	125	522	
3566	11617	A	449	124	602	WATTPFQPKNSNSKMAELFMECEEELEP WQKKVKEVEDDDDEPIFVGEISSSSKPAJ SNILNRVNPPSSYSGRLKNGALSRGITAAF KPTSQHYTNPTSNPVPAFPIKFHPESSSS DSSVIVQFPSKPKVSVSKTIRPAQGSICCL SISTVPSYNSGLS
3567	11618	A	4490	195	473	
3568	11619	A	4491	I	966	
3569	11620	A	4492	I	960	
3570	11621	A	4493	1743	1935	

3571	11622A	4494	1	1540	NSGGSGGGTSGSGSSSGQGKMGQSQSG GHGPGGKKDDDEDKKKKYEPVPVTRVG KKKKTKGPDAASKLPLVTPHTQCRKL LLKLERKDYLLMEEFIRNQEQMKPYLEE KQEEERSKVDDLRTGTPMSGTLEEIDD NHAIVSTSVGSEHYVSILSFVDKDLLEPG CSVLNHVKVHAVIGVLMDDDTDPLVTVM KVEKAPOETVADIGGLDNQIQEIKESEL PLTHPEYYEEMGIKPPKGWILLVPPGTG KTFPLKAVANQTSATFLRVVVGSELIQKY LGDGPKT/LSRELFRVSEELAPSLRFIDR LPLGHKTYDASNSNVGRRELQRTMELLE LLNPVGMGFD*GRL*KLSWATNRNATEL DPAJLPRPAFDISKIEWPLHDEKTKKRIF QHTSRMTLADDVPLDDULHGLKIDLS GA*HSRAICTEAGL/MGL*GERRMKVTN EDFKSKSENVLYKKQEGTPEGVVSLMN HGLSGKWLGFDSIPERDEVGGSCPESEL FPLIFY
3572	11623A	4495	125	320	
3573	11624A	4496	1376	1509	
3574	11625A	4497	2120	2313	
3575	11626A	4498	2	266	
3576	11627A	4499	918	1475	
3577	11628A	45	2	343	NLCQVFIPPLFHSLLYVFKTILKGLFQASF LGHILLPLSSTPGRPGGGAGGSGRGD PPAAGASRTIPWPPLLQLQLSSSSSHFKA/P SKLSSHG*PRALGPPOGPYHRPPSPCTT
3578	11629A	450	1	368	ICRFNPYVFLAAKADOLQVRLTQLT/CKS CWLYHCINHSTLQTCTNISTL/M/ILGHIPG LWLINLSEPWDATPVWHFVKLLTKT HHACRASGRNIFIAVSLVTLITSAVMSSVA LHSVOMAQ
3579	11630A	4500	1	822	
3580	11631A	4501	158	668	
3581	11632B	4502	151	336	ANSDSMVGYVLGPFFLITLVGVVVAVG GPAAHLLPMYSYDPAEELHEAEQELLS DMGDPKV*
3582	11633A	4503	748	949	
3583	11634A	4504	1139	1241	
3584	11635A	4507	41	488	
3585	11636C	4508	187	342	MICKKNKNVILLXXXXXXXXXXXXXXXXXXGG AXXXXXTTPPRRRGKKQFFLPPKQ*
3586	11637A	4509	1304	1434	
3587	11638A	451	126	373	GRGTSKILMALORTHSLLLLLTLGLG LAPPSYGHDVLYHHRVVAADNGHLEETLY MDRCLSVMILLRUSRSDCERLJGLA
3588	11639A	4510	1	1383	
3589	11640A	4511	1	674	
3590	11641A	4512	19	249	
3591	11642A	4513	1000	1174	
3592	11643B	4514	60	378	NAVLEADFAKRGYKLPKVRKTGTTIAG VVYKDGVLGADTRATEGMVVADKNC KIHFSPIYCCGAGTAADTDMTQLISS LAAMAVFEDKFRPDMEEEEAKNL*
3593	11644A	4515	1	437	DPRATEGMVVADKTCQKSTGRLPVLT AIRMLKQMLFRYQQYIGAALVLLGVDV TOP/HLYSIPPHGOSTDIAAGIFNDLGSGSN IDLIVSCKNKLDFLRPYTVPNKKGTRLGR YRCEKGTTAVLTEKITPLEIEVLEETVQT MDTS
3594	11645A	4516	1	1059	
3595	11646A	4517	1115	1307	

3596	11647 A	4518	3	866	FLGKMAAVSVYAPPVGGPSFDNCRRNA VLEADFAKRGYKLUPRPRKTGTIAVGVV YKDGVILGADTRATEGVMVADKNCNSKI HFISPNIYCCGAGTAADTAMITQLISSIN LKLHSLSLSTGRLPVWVTAUNRMLKQMLF RYQGYIGAALVLVGGVDVTGPHLYSIVYP HGSTEKVPIYVTHGFLAPLA/AMALFER* V*APDMEEEEAKNLVSEDSPPQFPSSW RIFNDLGSRKPNIDPLPSSARNKLGFSSP HTQLPNKKGTRLGWP/RYRCEKGATTAV LTKIPLLWST
3597	11648 A	4519	4	181	
3598	11649 B	452	1	1812	MPSPSPLFFVATIHDQCILLETTFGPSD LQDVPLEKADATVFTDGSFLEQGVRKA GAAVTTEIDVLWAHALPANTSQAQKAL IALTQALWKGKDINVDTSRYYAFATVHV HGAICQERRRLTSAEKA1KKNPSSKPN RSSSSGLNNLRPDGSIMYMHRSKGVPAPV SVNVNLTPSSESNLNLESSCVTKLSPKEI YEMESLQWENNMGRINHHHLQYNGLQD NMECKGNLEQGEAQSEQLYMCVKITCE EKATESHSTSSTFHRUIPTKEKLVKYSPNPS QDTGYSQHHTRTTFSKRQPKNCERFPVE GRPLTPAQTTSXGYSGSKSPDVITLLEQK EPCVVARDVTRRQCPAAMVDSLARV GVMARGNAITLPVCGRDVKFTILEVLRG DSVEKTSRVWSGNERDQELLTEDALDD LIPSLLTGQQTAFGRVSGVIEADGSR RRKAALTESDYRVLVGEELDEQMAAL SRLGNDYRPTSAYERGORYASRLQNEFA GNISALADADNISRKNITRCINTAKLPKS VVALFSPGDYLPVPAQAKGNVVITSY MTRNRGFFEDKKATFAPSFLMNIGNKT VVKNSILEQGQLTVN*
3599	11650 A	453	305	1088	NHWPMHLLVFRDV.AIDFSQKEWCLDT TQRKILSRDVMILENYYNNLGLTQGDILGS KPVVITLLEQGKEPCVVAARDVTRQCPG LLSRHTKLLSEKDIHEISLSEKESIIKSK TLRKGSJFRNEWQNKSFEQGQGLKER SISQKKNISLKKMSADRKRPSFTLNQRHHN SEKSCDSHLVQHGKIDSVDVKHDKCECGS TFNNVYQTLHQRIHTGEKSCKCEKCGK VFSHYSQQLTLHQRFHGTGKPYECQECGK TFTLYP
3600	11651 A	4538	1511	1687	
3601	11652 A	4539	425	619	
3602	11653 A	454	1	2088	
3603	11654 A	4540	122	621	
3604	11655 A	4541	2315	2790	AATTPLRPLRSSLFLMATTIKAESTGT WSSSPSLPTPPPTSLRKAPTLIQLKWRP GAQOPSCPKPRS*PSSSTPRTGPJPGTSTS EPMTTQWP*STPSMR*LPPALTI PRSCVP SRTAAVVLGWWYATIHierWLSAYSRQPD SGLGWQTCFAQNLPK
3605	11656 A	4542	645	766	
3606	11657 A	4543	294	502	
3607	11658 A	4544	969	1158	
3608	11659 A	4545	147	402	GRGJQLFHIELQLQLSKTLCEPAVPVQRLR GRTAARWPGSRESPLRPVFDVEYCGVLI FIILFI*WRHFHSLCWSGDDIIACLL
3609	11660 A	4546	240	433	
3610	11661 A	4547	3	310	GGQPHPPAAARPGRWGCOPPRAQPLRP GGSVSTGTGFPGRWQOPETSWSCRHIC GPHLSAVWGLPRLSPLPAGPNPRQPOQLS EFPRLPKFELTPRTQTKTPN
3611	11662 A	4548	3	195	WPPLGQLPKGTIEHRRPTPTDITPRAARSTR SHSPSEPRTRTWPQQR*LPRLPSKPSHCPD VIEAA

3612	11663	A	4549	1	1439	
3613	11664	A	455	140	511	PTQSTRRIATVSIAAVAPALTLFLYRGDG GLSSRRADAAGG/APFLSCGEVAVKPP NPFTELMENAVNDGSHSEELFCHLKTIS QEKDULTRCTSESHLSWYSHQYQGKSKF PILGFPVLSSI
3614	11665	A	4550	292	573	
3615	11666	A	4551	376	456	GEEPTSVF*RNQWNLRPKHFGNAPW
3616	11667	A	4552	1663	1984	
3617	11668	A	4553	1735	1868	
3618	11669	A	4554	138	279	
3619	11670	A	4555	72	192	
3620	11671	A	4556	571	690	CQQGFSFLQAYGPAQHAISMRKFKAKY PDYEVTVANDGY
3621	11672	A	4557	130	943	
3622	11673	A	4558	45	405	GIPGRNNMAVADLILPDVADISDGVFK YVLIPSPLGIPAPGIRPAESKEIVRGYKWA IGHHADIDYDKSGVATCRKQGLRTVSILG GGRIS/HTKSPGQERFTVYGYSMGLWSC PRTPIST
3623	11674	A	4559	613	866	
3624	11675	A	456	1	1014	
3625	11676	A	4560	69	430	
3626	11677	A	4561	144	294	
3627	11678	A	4562	13	759	
3628	11679	A	4563	177	328	INAHLKFKVYFLSQAPLKCTWTKSTAARE NHV*LTFLMFYGTGJGVCFL
3629	11680	A	4564	218	343	
3630	11681	A	4565	708	916	
3631	11682	A	4566	829	1002	
3632	11683	A	4567	51	209	
3633	11684	A	4568	8	218	
3634	11685	A	4569	3	357	
3635	11686	A	457	577	2195	IMGCVQCKDKEATKLTEERDGSLNQSSG YRYGTDPTPOHYPSFGVTSPYNNFHA AGGQGLTFGGVNVSSHTGTLTRGTT GVTFLVALDYEARTEEDLSFHKGKEFKQ ILNNSEGDWWWEARSLTGETGYIPSNNVV APVDSIQAEEWYFGKLGRKDAERQQLLSF GNPRGTFLIRESETTKGAYSSLIRWDWD MKGDHVHKHYKIRKLNDNGGYYTITRAQF ETLQLVQHYSERAGLCCRLVVPCHK GMPRLTDLSVTKTDWWEIPRESQLQKLR LGNQFGEVWNWTWNNGNTKVAIKTLK PGTMSPESFLEEAQIMKKLKHDKLVQLY AVVSEEPIVYVTEYNNKGSLLDPLKDGE GRALKLPNLVDMAAQVAAGMAYIERM NYIHRDRLSANSILVVGNGLICKIADFGGLAR LIEDNEYTARQGAKFFKWTAPERALYG RFTKSDVWSFGILLTELVTKGRVPYPG MNNREVLEQVERGYRMPCPQDCPISLH LMUHCWKKDPEERTFTEYLQSFLEDYFT ATEPQYQPGENL
3636	11687	A	4570	2	217	ECGDVCJDTGDRASVDEEGYIWFLGRSH HTINAS/GVVKALIVLTPQFLSHDKDQLI KELQQHVKSVTAPCIC
3637	11688	A	4571	1	846	
3638	11689	A	4572	361	916	
3639	11690	A	4573	128	416	ROVLLFWGRGKQHNPFSCLYPFSAFLG EGQVPLNPPSFTLSGKSRFSRGQEP/LNPL FPHDLSVCPNPLPPHPDPFFPALEGKN PRTPIRTRGST
3640	11691	A	4574	127	135	NKIVLCKCWGGGENFWGVVWRENGRCFS GLLQAGLGAAPRVRVG/IVRRNICCIE*L VMAWIRFCMN*KTK

3641	11692	A	4575	35	386	OLKTDTAQSPRSPLDHHGHGRASGNHSG SIHPDGK* LKNHKRSEKCPFLTDIPP OKKCKWPVLALSADITL* KSFSWLLAQ KAPPLSTL* PPLLPAREQMSFDCNFPPLT QIL
3642	11693	A	4576	148	336	IRTPFLKIGLFNSPGSHSQSPWNSGPRLSD/ WTPSQIFSA* QLKTDAAGSPRKPPRSPRT PSFR
3643	11694	A	4577	4418	5130	DTISYQLEWRSLSKSQETTDQAPMSSL*NF LRSNPWLS*RLGA*/WNADEQGVPLQJE MLESWASICKVPKVYPNAEAVPREEQPTPH LHPGEINSHVAHTKLVWWLSLHTDTHEI WCRDSDRGTSLGRSPCPALCSVRKJHL RPQVLRPTSPRNISPISNPHTRT/SQTPEPQ RPGVPEPFSPGACYKCKQKSIDHQAKECL QPRIPKPCPICAGPHWKLDCAHLLAATL RAPGTLAQGSIL
3644	11695	A	4578	522	923	PSAAGLLEFAGGQLPTLFAWVSAAEAE QRVLLNSQ/WLLPDRSSGSFVSGISIWPC VSVCPSSRCWRPRPKPLEAHVLPQDQPT LLAPVLVLLAVCYGWSRPLAHTLFAAS RLAHJHGDRQNLLNLDKAQJLN
3645	11696	A	4579	1	569	MGKKONRKTGNSKQSTSPPKERSSSP ATEKSWMENDFDELREEGFRRSNYSEL EDIQTKGKEVENFERNLEECITRINTEK CKELMELTKARELCEECSRSLRS/LMRS TGRLLIKKTPFSSG*SR*FNN*ANSLY* NINSNSKSLP*PLKGPILSKPSASNIPCISLQ WVQAFQGKSESLPAPR
3646	11697	A	458	561	966	GALCAASPRVCVWSSAGGVVALFEEHCA PLVVVYTYECCHYMCASLLSISCPCPAP SERAAGLCCLRVVCPCHRGMPRLTDSL TKDWDWEIPRESLQLIKRLGNGQFGEVW MGMRLRNLYSLISPFWVVKIPNTKDG
3647	11698	A	4580	23	660	FIDSMPSPSRYO*LSSONWKLL*SSYGT KEEPASPSOS*AKRTKLEASHYLTTSNVT RLO*LFQKHTMLSPRENLTOQACTQVK* TAMLLTQ/RPVVWSLHTDAHEIWCCDS DRGTSLGRSPRPPALCSVRKJHLRPQVL RPTSPMNISPILNQLSSLRLTLPDRLRSP DHHRGRASARLHGEINSHVAHTKPVW CSLHTDTHENDKNAQ
3648	11699	A	4581	1	764	MIOEHADKQVORLQGVLLGSIPTAASRA RLHPGEINNHVAHTEPVWWSLHMDAYE IWCRGSDRRRTSLGRSPILPPALCSLRRH RPOVLRSTSPRNISPISPNPGLHSYDTPITQ GCQTMQGRLPWWSFTLSGKSRFSGEGATQ RQYIPQOQALKGMLMPAITRL/STAWPFKA YKLSLPPPHFTCPKTRQALQVSSGSAPYQ PNCFAYPHGAKPIYSSILNTCLYNPLFC RSQTSFLYYSFAPPFAISLRIHL
3649	11700	A	4582	1	400	MWNAVTLWQORESCIEESEIGTLETKE THFIRGPKTTLAPVTDWEG/PSLGV*SMQ GRSLSDYPTTFQGFQTTQGRGLPWSFTLSS KSCFS/AGR GKLLLARPS*VPILPQPLLLH PTILLSPPLLTGPQAYSFIP
3650	11701	B	4583	1	933	MEKEERKRRKRRKRRREEGRDGERKR MEKQENQDPKDPPTTSGPQTDQPKKH LTNFKSETKETRFLRGPKTPAPVTDWEQS LPLVFNHSRDTSLJHJPGFRGVPRRDRAC LGPSPLAASPTFLGKGPAAPRQTELGPNS SSASAPPYNNFIASPPHTWWSGLQFPMST SPPPAQQFTLKKVAGAKGIVKDLINLTF KVYNNRKKLQFLASTVRQTPATSPAHK NFTQTELQOPGVPEPPPRGACYKQFKQS GHRAKECLQPRIPKPCPIPCVGPWHWKS CPTHLLAATPRAVGTIAQGSLTPSQFLA*
3651	11702	A	4584	1	582	

3652	11703	A	4585	1	622	MAKSFSGSGKSVCKSPKGKNNNTWETRM IGDGGIQLQEGSLTMKFEDGKYLFGFNIIEG DFCFEDSNFQTGESVSDVYFENVSALQRE STGSGIAQERNDEGLESGRAVLCIEECLS ASLASTSQSSIEQPLTSSPPTKTKQNMTP DIAEYQPWAIWTSKTTTIVLRPS*VLLP QPLPLHPPIFLSPPLTTPAPAYSFIPPSQTTS FG
3653	11704	B	4586	102	1151	MEHFMLMLGSKNQYRENGHTAQEKL YAFHNSLQSSSLSQSNFPNNENNNDGS KDDDDGGDDDDCQASEAKPNSACLHP GEINSHVAHTKPVWWSLHTDTHENDNG DVGDNNVDDVDDDGDDGKDDGDD DDGDTVMVMMIMMMVLMVMMIVVV VVVVVVVVASRKAFLFLNGEESLESHLT GFANIPNHHLTQVHIIYPTPLPSGETKETR FICGPKTPALVTDWEGSLPLVFNPCRDAS LIQOPRFFKAASMLGEQVPLNPFSFTLS GKSRSFGEARAYYKCRKSDHQAKECP QPRIPKLPICAGPHWKSDCSTHLAAAP RTPGTLAQGSLLTDSFLA*
3654	11705	A	4587	258	479	TAARGRSSRTSSHRSLLHVPEIWPLQGQ MPAARDSS*AASHLRCRTPPKIGLFLNPGS HSQSPWKSQPRLSD*LPLRSSRLSS*RAL GQISRGSGSGQCVS
3655	11706	C	4588	259	531	MSPAHKNNQFTPEPQRGPPIPPEPPPGACY KOKSGHQAKECLQPRIPPKPRPICAGPH WKLDCTPHTLASTPRAPGTLAQGSLLTASQ IFLA*
3656	11707	A	4589	1	446	MNLNRNRLVLTLSFSDSARLHPGEINSHV AHTKPVWWSLHMDTHEIWCRDSDRGTS LGRSPICPTV/LVLSRKFKKACYHSPTAS WPKFTYKLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPSFVLNTF LHNSLCRA
3657	11708	A	459	46	949	ARPRPWLWSSARTPRRPFWRPSCSCPM LTTSSETLMMKNDIPSGLETFQPF/YEVLFQ SNIQHVLVYENPALQEKALACIPVQELK RKSQEKLRSARKLDKGINISDEDFLLEL LHWFKEEFFHWVNNVNLCSKGQTRSR DRSLPPSDDELKWGAKVEDEDHYCDAQC FSNRPPVNNPEKLLTRECGPWCE
3658	11709	C	4590	228	260	MFLGLVGLRT*
3659	11710	A	4591	268	390	
3660	11711	A	4592	1	499	MAPTNCKGSRKCGRPHEQMHPYVPLP TFLSDSARLHPGEINSRVPHTKPVWWSL HTDAYEIVYHDSDWGDLPWETWTPCPA LCSMRKJHLRPQVLRPTSPRNISPISNP *NGLKVF*KHTPSATATNLKRPQYFVH FPPSFERPVLGMLQVTSAFQKFTLL
3661	11712	A	4593	1	355	MEVYTQKAYWRVPLGSTVGDQGGGHGR FIHIFAIKEQGSTNRCPGSGATKVLJLC LHGEKVDLLPADQQSIFSPGRSTQGHILISI TGVLMNRJISTYMDKEVKVMVTALWTD EELSKLTWTRMKFDAMTQLGDLPWEIN PLSSCSLLREKDPPFTSGPQTDQPKELHT NPKSTTNAHPI.TIPLKPNHSYPAECQYPV POHALKGKLSITRILQHGLLKPINCPYNN SPLPVLPKPDKAYRLLQDLRINQVLSIH PVLPKPNTLSSIPPTSTHYSVLDLKHJAHF TIPHLHLSQQLFAFTWTIDPDTHQACQITW AVLPGQDTSPHYFNQAOISSLSSVTYLGII LMKTHVLSLLIVSG*ESIWFWQHQGVDRQ NNLVDKAQILK
3662	11713	A	4594	260	487	AQACMYTSRWPFEATEEPQKK*KWLVPA LTDIDLT*HSFGTVSLRSSPLSTL*PPPLP AREQPLTVIFHHILPKS

3663	11714	A	4595	1	508	MNNMNNKKVKQATVLITFTTALLAGGAT QAFAKENNQKAYKETYGVSHITRHDML QIPQQQNEKYQVPQFDQSTIKNIESAKG LDVWDWSWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTISYMFYQKTA/PSPGQ A/TPVILPQPPLLHPILLSPPLLTPSPAYSF VP
3664	11715	A	4596	1	1246	MGKGRRLSWLLPADGGSSGNGNELQGT SPHDYFSIAK1STHIGLEYPTSRQSNRVP QSKRIRQPLGLPSGSITERGPNNRNQKGY TRQOCFCHESTPNKGDRVYINLTCLLYCC VRFLPLAGTGPFLYILSRLASNLLELFKRDK GRGEQRKEEVTCFHKLLAEKENNPPFSFI YPPNPKRPHPYLPSN1LFSDSAHLHPGEIN SFMAHTKPVWWSLHTDAHEIWCRLSDR GTSLGRSLRPPALCSMRKIHRLPQVRLRI SPRNISPNSPHALKGLKPVITRLLQHGL KPNPNSPYNSPILPHVLPKDPKPYKLVQDLCCLI NQVLP1PHMMPNPYTLSSUP/CHNPLF CSGSQTCFLYYSFVVPASLRFLD*P*H SS/WFSKLPLGLYCRKASQZTAPITSVKPKF HPLLPISA
3665	11716	A	4597	182	750	KWPYCPSAQQTQLCSSLTSNNCLPY RGTSLGRSLRPPALCSMRK/MPPTTSGP QTDOPKKHLTISNPVAEAKGIVKVNAFP SLSDPKKIS*RLGSFSSNHPYLGQROVPIP QALKGLKPVITCLLQHVLLKPVNSPYN SPLPVQKLDMPYRLVQDLCLINQVLP1 HAMVPNPETPIPLTVLN
3666	11717	A	4598	3	504	KRPHPYLPPLTLFSDSAHLHPGEINNNHVA HTRPVWWSLHTDVHEIWCRLSDQGTFP WEINPPSSCSLLREKDPPTTSQPTDQTK KHLTNFKSGKRPFLTVPSPTSLTIPQLSPF NLGATLQSLPSLNFNSFHFLVFTKETCH HEPKTPAPVTDWEGSLPLVFVNHC
3667	11718	A	4599	1	1032	
3668	11719	A	46	105	328	RDLHMKTITTSKVY*LTN*H*SGSVQRDYE LHENPLVGPNIKLGDFVDISHPNDEYSSL LLQVKSLKEDLQKETIS
3669	11720	A	460	3	284	
3670	11721	A	4600	72	724	FQAGKWHFQFFHPTRSK*FLS*N*QMV* GA*CPGILLHISPLVVSVPSTAQPSSSFPS HLSHQYQOPQVSLSLSNLPLFQTHVTSAFL PRLLARPS*VPS/RSASA/STLQLSYLHL PSSHVLRLTVSFRDYPSPCTPAIS*KGG WSQRHSQG*CSF/SLYPKSDSV*ALFHQI* KSSPVHGSFGSNPKTLYSPSP*KVKRPSY SQYTFYYPICSRH
3671	11722	A	4601	2009	3197	
3672	11723	A	4602	3948	5007	VLOQTFAVSVTAHKGGTPRVVCCSQWVR GLADFRNEAADPHDQGMDENPTDFLER LRGALVKHMSLSPDLVEGQQLKDKFIT QAAPDIERKLQKQNGPSLRDIFSPONGY NWRMASFYLPVANKWKILKSLYQILHL GPDWEQPYTVFLSTPMAVEVTGIDSWIH YTQVKAWKADGATSVNPEEHPKYQGEI NSVVAHRKPVWWSLHTDVNEIWCRLSD RGTSLGKS/HPRSSCVLCSVRKIHLRPQV LRPTSPRNISPILNQELATRA/VKSGH*AK ECLQPGIPKPHLICVGP*KSDCS/TPSGS HSQSPWNSGPRLSD/WTPSQFSA*RLKT DTARSQPKPPRSRMPFSR
3673	11724	A	4603	567	678	
3674	11725	A	4604	1	305	
3675	11726	A	4605	3474	3657	
3676	11727	A	4606	796	937	
3677	11728	A	4609	664	1059	
3678	11729	A	461	420	690	

3679	11730A	4610	775	944	
3680	11731A	4611	279	416	
3681	11732A	4612	36	4704	
3682	11733A	4613	124	672	
3683	11734A	4614	688	940	
3684	11735A	4615	561	663	
3685	11736A	4616	217	378	
3686	11737A	4618	198	347	
3687	11738A	4619	201	424	
3688	11739A	462	557	753	IIIEIGIMEQRKPWKKICFYFICCASHAKGSL /CRRMKRAPVYYGRTVPSPDGIAHGEY HVLLNLNT
3689	11740A	4621	305	440	
3690	11741A	4622	936	1380	
3691	11742A	4623	9	1230	
3692	11743A	4625	942	1293	
3693	11744A	4626	40	154	RWLCPHALFLWLASHLCHFYTFECVQ AEC*VMPPHPL
3694	11745A	4627	4	436	
3695	11746A	4628	465	748	
3696	11747A	4629	92	393	WPRSGPLRLRTVCCVLPILLSHSKLHKI SVSAPG*#OIPPPFQNRSFSCDTERG*GG ETPLVPGKFSSPHQTL*GTSSGRTGSAG QLPLLYLSYKTR
3697	11748C	463	137	274	MRKOLLPOKKRRVYLLRITKKVEMIPQ DNENPGNTNCHDVVLVQ*
3698	11749A	4630	1	1614	
3699	11750A	4631	1	410	KOKVKEEAAQRYYQALKKFPREGGFGEDL KTFRKLVSLLNLSCRKKMNNNNSSC VHILSSRQFAAALEDLNEAIKLCNPNNREI QRLLRVEECCRQMQOPQOPPPPPQQQQ QLPEEAEPED*RT*TRPSCVPPTVRSRDF C*EWKKSVD/TMOQPOQPPPPPOQQQL PEEAEPPEQHEDIYSVQDIFEE
3700	11751A	4632	1	972	
3701	11752A	4633	196	390	
3702	11753A	4634	2	4417	
3703	11754A	4635	158	358	
3704	11755A	4636	4	152	
3705	11756A	4637	382	458	
3706	11757A	4638	46	314	
3707	11758A	4639	46	271	
3708	11759A	464	1	2155	MKKKMKKEEEKEKEEEEEEEELERR KEEDDFCNRTSPAGGSEGPQGESEQPAQ PPEQAGGRPGASPAPIDEAAAGAEEOQ GDSTEATAKPKRSFYAARDLYKVRHQY PWKLSQFHSSVSHRKEDICKAFKWQD AFFGELTRGKRSQHNTYLRITRILKSLGEL GYESFKSPVLFILHEALVENTIPNIKQSA LEYFYTIRDRRERRKLLRFAQKHVTYPS ENFWGPDRKEQSEGSKAQKMSSPLASS HNSQTSMHKKADSKNSSAVHLNSKTA AEDKKVAPKEPEVEETDRPSEPEPSNEAAK PRNTEDKSNAENMNSQPEITVTTIPTTEKK ESVSPENEEGGNDNQDNEPNPGNTNCH DVLPLRSPAPAAASSMGNLLGGVSFREP TTVEDCDSTWOTDSEPEPEPEGPGGGSE GPGQSEQPAOPPEQAGGRPGASPAPDE DAEAAAGAEQGGDSTEATAKPKRSFYAA RDLYKVRHQYQPNFKDIRYQNDLNSNRF YKNUIPKPKPDGVYIEEVLSKWKGDYKEKL EHNHITYLWLPLTTEQOLNMFYAKELTTY EIDESSKTKKEAIRFPPWVAYKNDARIFWN KTIJGLKLGMFARGVYWQESFOHLSNEQ HNYLIRTRILKSLGELGNEFSFKSPLVKFIL

					HEALVGGILFPILRQSAL\EFVFTIRRGT RRKORKA/LCGFAP/WKHYTAFGQNFIW GDPSEKEQFGGGQPRREM
3709	11760	A	4640	1	1815
3710	11761	A	4641	1	1284
3711	11762	A	4642	1	1650
3712	11763	A	4643	1	1605
3713	11764	A	4644	303	410
3714	11765	A	4645	92	395 HIIHSKLTVTLSPPPCKKPLPPMKAKLVE EERKRNARG\SAKRRKMRQRSQVNPPSF VAPVEATQEHE\ETWNAQTLGMLGTSCT ACYCLEVSMGSKRTSSAL
3715	11766	A	4646	362	497
3716	11767	A	4647	609	701
3717	11768	A	4648	1	104 TYV*PSVFKVN*HPT*SSS*HRKDQTDIL NAINQ
3718	11769	A	4649	1	1398
3719	11770	A	465	226	486 NWKTKIITSMLCWGNASFGQLGLGGIDE EIVLEPRKSDF\FINKVRDVGCGLRHTVF VLDGGTVYTGCNDLGQLGHEKSRKPF EF
3720	11771	A	4650	1	1149
3721	11772	A	4651	3	242
3722	11773	A	4652	213	658 EGPARHRLSPVRA\SKMTKRRNNGRA\KKGRAPRQGTAPLKI\PSGPLPPNACRCP/RRDKAIKKFRHSE\*WEAAA\VRDLE\ASVFDAYL\LPKLYV\KLI\YCVSCAIHK\Q\*SGNRSS\*SPAKTRTPPPRF\RPAGCWP\HGPPTKSP
3723	11774	A	4653	161	295
3724	11775	A	4655	355	476
3725	11776	A	4656	662	979
3726	11777	A	4657	960	1387
3727	11778	A	4658	696	996
3728	11779	A	4659	240	461
3729	11780	A	466	674	1026 LWAEGTLVWGSIREWLQH\TPP\NGI\RDW AKQRMWRTGQ\Q\PA\PTRVN\SRSP\PTPF PRFT\KLMWALGTD\DP\FT\H\TH\SH\SF\AH I\H\SC\THA/HVQEHTY\T\SLP\HTSRP\FLKG SK\ST\PKP
3730	11781	A	4660	2939	3295
3731	11782	A	4661	44	319
3732	11783	A	4662	2	896
3733	11784	A	4663	68	438
3734	11785	C	4664	208	345 M\SPDRNIECKATGFT\ET\TY\DL\FC\KS\VD SFYQLI\SS\GSKS\IT*

3735	11786	A	4665	1	320	
3736	11787	B	4668	1	651	MQKEDCVIVLVKLAVEGMAPTFQQHILF VAITFGWPQRQCTGSSFKAJDLFLDPDSV MQQIYFSFHGIMCNFDNHAFQNLMAVID NIKQDRDMDEAGSHHSQQTNTGTGNQNT PHVLTHKWELSNENTWTQGGHEHTPGP WVGLADPKNEVDPHGVKPKTFTVSV TALKDDVSGHSFLLVGSWSANFRNEAA EPSALFTIAKIWINLSIIQQMNG*
3737	11788	A	4669	1	112	
3738	11789	A	467	153	380	PRSWGQDTTPSRGERSPNSSGTPGLPPPG GHPPSPQVRPQLLPTPDLGPGPGQAG IQG\PSGSP\TQDGANSRL
3739	11790	A	4670	474	616	
3740	11791	A	4671	197	334	
3741	11792	B	4672	82	402	MGLEKLHPPFDAGKWGKVINFKEEKLSS DSMLVEAREASEEDLLVVHTRVLYNELK RKVLRLPRTQTGGTIMAGKLAVERGWAI NVEAIXRKVELEWGTEDDEYLDK*
3742	11793	A	4673	1	1524	
3743	11794	A	4674	39	786	
3744	11795	A	4675	434	1333	
3745	11796	A	4676	772	1107	
3746	11797	A	4677	282	377	
3747	11798	A	4678	233	459	
3748	11799	A	4679	761	962	
3749	11800	A	468	140	754	TAMSSEEGKLFGVGLNFNTDEQALEDH HFSSFCGPISEVVVKVDRGTSSGGPGPFI IFTNPEACFKLPMKPKPMNRSSLEWSVR SRCWIMQAKSASGEPEGGGLLGAHAWGL GSQLTFFKVVGGPGLIGELSFAMRAMN GESLDGRQIRVDHAGKSARGTRGGGG AHRGRGRSYSRGGGDQGYGSGRYYDSR PRGYRYRY\GRSRD
3750	11801	A	4680	3	190	
3751	11802	A	4681	150	338	
3752	11803	A	4682	168	375	
3753	11804	C	4683	55	444	
3754	11805	A	4684	64	322	
3755	11806	A	4685	2	38	
3756	11807	A	4686	185	451	SQHFGPRQVDHLLRGVGDQLDQHGGET PSLLKIQNWPGVVAHACNPSYSGG*GRR IRLTLGGGGGELRSCHCTPALATRAKL RLKKKK
3757	11808	A	4687	344	468	
3758	11809	A	4688	204	286	
3759	11810	A	4689	206	395	TFCLVFFQFSYNFQLPVFVNTALVC*RH* LJAFLNLRII*F*YKYISYIFVKL*QNQISKWP WF
3760	11811	A	469	2	259	GGINDLAFPH/HENEIAQCEVFHQCEWG NYFLHSGLHAKGKEEKMKSLSKLYT1 KPSTTVTAPCSKLSSCSWGWLWRT VPT
3761	11812	A	4690	2112	2221	
3762	11813	A	4691	116	382	
3763	11814	A	4692	11	666	
3764	11815	A	4693	47	241	
3765	11816	A	4694	246	485	
3766	11817	A	4697	3	728	
3767	11818	A	4698	825	941	
3768	11819	A	47	1478	1732	GGQGRWITRSAVQDPHGDGEKPSLLKI QLKLRHGGRRLLSQLGRU\RNQENCLNL GGGGCSEPRSHPCPTAWVTEQDSVSKK KKK

3769	11820	A	470	198	353	
3770	11821	A	4700	1	299	MA LR KNEV FEG WD GRK GVS HGE GCF SK GS NI GYA LG K S QEQ FEG NI GRN RQI VNN ESK LK SIE EDL TPR M QR SNTL PKS FGS Q LEK D EK KQ EL VD KAI KPS VEAT LES IQR K L Q EK R A ESS R P E D J K D M T K D Q I A N E K V A L Q K A L L Y Y E S I H G R P V T K N E R Q V M K P L V D R Y R L V K Q I L S R A N T I P I V S R I P S R G W Y N T F P * C P Q G G C F P L A S P G A S S E
3771	11822	A	4701	1	238	
3772	11823	A	4702	1082	1436	
3773	11824	A	4703	126	417	
3774	11825	A	4704	867	961	
3775	11826	A	4705	3	242	
3776	11827	A	471	103	483	NT A V S T T V A G S C L A S E S A G A P L P S A L S V G L G P A P W N K G R S C L P G R P S T G E D L G A D F I P P N T L G L Y I G N V Q V P I R F L G S H V S L R P E S L T Q L R L N A F V F V S G H L H A K G K E E K M S K S L K N Y I T I K K K
3777	11828	A	4710	244	318	
3778	11829	A	4711	1	1605	
3779	11830	A	4712	1	816	
3780	11831	A	4713	395	1374	K V T L M R W L Y K G * N S G P M S V / T E E M D L A I E A S E M I V L Q S L H K Y Q P R L I H V E V N D G E P E A A C N A S N T H I F F Q E T Q F I A G T A Y L N A E I T Q L K I D N N P F A K G F R E N F E S M Y T S V D T S I F S P P G P N C Q F L G G D H Y S P L L P N Q Y P V P S R F Y P D L P G Q A K D V G G S R V N R E V S K D F A D F G T T I B Q D F R L L G O T S V D R L L Q L S Q Q S P R A L A D S L M Q L A R Q V S R L E S G Q D F A D F G T I T K Q D F R L L G O T S V D R L L Q L S Q Q G A V K G N Q N Q L P V S L V K R K T T L A P N T Q T A S P R A L A D S L M Q L A R Q V S R L E S G Q
3781	11832	A	4714	1	2109	
3782	11833	A	4715	251	623	
3783	11834	A	4716	36	69	
3784	11835	A	4717	328	441	
3785	11836	A	4719	560	688	
3786	11837	A	472	98	1339	G L R A A Q A W A P R C S R P R W A L G G L G G T G L R S L S A S G G R G R A W L Q P T G R E T G V Q V N Y S L T G R K E P L I V A H A E A S W Y S C G P T V Y D H A H L G H A C S V Y / R D I I R R L T E V F G C S I V M V M G I T D V D D K I J K R A N E M N I S P A S I A S L Y E E D F K Q D M A A L K V L P P T V Y L R V T E N I P H I S I E R I A R G N A Y S T A K G N V Y F D L K S T G D K Y G K L V G E V P G P V G E P A D S D K R H A S D F A L W K A A K P Q V E F W A S P W G P G R P G W H I N E C S L A S N G I W K V N L D H I H S G I D L A F P H I H E N E I A Q C E V F H Q C E Q W G N Y F L H S G H L H A K G K E E K M S K S L K N Y I T I K D F L K T F S P D V R F F C L R S S Y R S A I D Y S D A M L Q V V S S C S W G L G S F L E D A R A L H G R G A A G L R L R Q Q S D A V G E A L Q H Q E G K R E G G L G R
3787	11838	A	4720	245	382	
3788	11839	A	4721	235	425	
3789	11840	A	4722	253	363	
3790	11841	A	4723	235	320	
3791	11842	A	4724	1	1326	
3792	11843	A	4725	2	1502	

3793	11844	B	4726	144	2704	XHGSVVVWDLREDSRJHYSVTLSDGFW TFTATFTSIDGILTSVNRHSPLQAVEPIST SVHKKQSFVLSPLSPFTQEEEMSGLSFHIA DESGVLNVWVWVVELPKADIAISDGLL MPGGRVVKLWDSSTDASHAVTGLQWSPTR PAVFLVQDDTSNIYIWDLLOSDLGPVAK QOVSPNRLVAMAAGEPEKAGGSFLAL VLAARASGSIDIQHLKIRRWAAPEVHSVC RKWSGHTASRVHTHSPSLLFCNPLDD WRSRFETEAPKHWVFFEPYRNVKPDK ETSKKANDLPLSLTPREELARCLWAPPSP SVEGPMTAEAVPWNNESSHSSKGREGPE PHRRSSAAEQUEVQAARLQGERKARGE HGRSIKGRENGAKDQPKRQAPPVSVFR QSPSPSRESAHSSGTRQLGCSHTELTTGG HLASLCDYLLQTPRGVPEHRSAGSKC TRHSHSHTLGRGEGVCTCPAATDTPQV VERESNPLDEVRRGHAGEHRLLSQSLST VGAESISSKSTOWAPLNAPVRTFLGESLG SAFSSASIALRTSVKRRHKWARPHNTGA RQPPGGKGTTPGKGEHPEYIEKAPPCCVSR WLSSPPGTPSCITVRRSWLPSALKHCC VLRREMAVCHRLSKCPANAVKJIPCEG KSPPYRALWHRSGVWTVAGTQRSPNIR AHRDQTLRNNYTLIPNGNWRHGAYAG VSSFSRX*
3794	11845	A	4727	8	3281	
3795	11846	A	4728	162	347	
3796	11847	A	4729	201	522	
3797	11848	A	473	414	833	NVLVICQRNSNSFKLKFVRDDGEQTTQ DFSAQ/AS/SQGRPELVHSRGVQGPWG HQPPWVCONPLAKAATALLVLESREE ERTVTAEGAPLSPGPGHTSPSPGRDAGG SNLGTFSRSYSQRLEFLSSRKLCNCKL S
3798	11849	A	4730	205	424	
3799	11850	A	4731	343	500	
3800	11851	A	4732	103	361	
3801	11852	A	4733	1097	1298	
3802	11853	A	4734	874	1184	
3803	11854	A	4735	451	641	
3804	11855	A	4736	1	1215	
3805	11856	A	4737	1	417	
3806	11857	A	4738	19	345	AATLGHCPSSIQCWRSAGSCPRASSSGPQ ASPMAWV*STDLR*MSWATSLSQGWCPQ WPPTPSCSQSSWAALIHHRCGWWCHCH LTGEDLRLPEARLPGQGPQGAGGPQ
3807	11858	A	4739	40	209	DGRCNQSWSRRLQGPWRVWVHTEGPGPAS ARLPQHPGPGPGCPLLCGHICVQPEEEYFP *LPQPHPGPGCPPLCCGHICVQPEEEYFP
3808	11859	A	474	635	901	PIPEPKGPKLRAPLSPSPDFFPGSRLLAGSP GAUPPPPIPHEDRLLHQGSSHPIPIRLLER SLAQQGAAPLGPPRMPHGAAPQGCSPT PT
3809	11860	A	4740	2	4097	PCPPHADCRDLWQJTSCTCQPGYYGPGC VDACLLNPQCQNCQGSCRHLPGAPHYTC DCVGGYFGHHCHEHMDQCPRGWWGS PTCGFCNCVDVHKGFDPNCNKNTNGQCHC KEFHYPGRSGDSCLPCDCYVGSTSRSC APHSQGCPCPRGALGRQCNCSDSPFAEV TAGGCRVLYDACPCKSLRSRGVWWWPQTKF GVLATVCPCPGRALGIRGAGAAVRLCDE AQGWLEPDLFNCTSPAFRELSLLDGL LNKTAldTM
3810	11861	A	4741	2	10321	
3811	11862	A	4742	157	273	

3812	11863	A	4743	469	676
3813	11864	A	4744	237	497
3814	11865	A	475	816	1099
					HPGEPPFFLRQSL/NSVAQAGV/KWRDPS SLOPLPPGFKRSCPSPLPSSWDYRRVPPH LANFCIF/MSRRGFIMLARLAQPO/CDPP SASQSARITGV
3815	11866	A	4750	303	1978
3816	11867	A	4751	142	408
3817	11868	A	4753	49	163
3818	11869	A	4754	665	733
3819	11870	A	4755	334	520
3820	11871	A	4756	3	222
3821	11872	A	4757	133	205
3822	11873	A	4758	250	532
3823	11874	A	4759	524	677
3824	11875	A	476	3	232
3825	11876	A	4760	110	1520
3826	11877	A	4761	1	635
3827	11878	A	4762	2	4398
3828	11879	A	4763	2016	2227
3829	11880	A	4764	1388	1520
3830	11881	A	477	2	732
					FVPGEMAASGRCLCKAVAASPPAWR RDNTEARGGGLPEYDAGVIGAGHNGLVA AAAYLQLGVNTAVFERRHVIGGAAT EEIPGFKFSRASYLSSLRQPQYTDLELK KHGLRI.HLRNHYSTTPMURKRV/QAAKVP RCLLLGTDMAENQKQIAQFSQKDAQVF PKYEEFMHRLALAIPLDAAFPDMAAF QHGSLLQKRRLALSTLKPLLKAGRILGAQ LPRYYEVLTASITKVLDQWFES
3831	11882	A	4770	620	903
3832	11883	C	4771	230	487
					MLNLASPLDKLTLQNTTQNGDSSTHSS NSIHKHTSSSSSVLFPDGTILEALFVSSPKV EASPLEAXVPCASASHSCNTSSKLNRRL*
3833	11884	A	4772	1	350
3834	11885	A	4775	97	185
3835	11886	A	4776	845	942
3836	11887	A	4777	510	636
3837	11888	A	4778	22	333
3838	11889	A	4779	310	422
3839	11890	A	478	161	610
					GRRSPSQETPRPTSLSGAPPTRRHSRCPN HTVSSASLSPSRHRLFLTYRHCRNFSILL EPSGCKSDTFLLLAIKSQPGHVERRAAIR STWGRVGGWAMGRHLKTD/GSSYGH DAR/IPTQLMAYESREFDDILQWDFTED FFNLT.KEL
3840	11891	A	4780	1	140
					KRCGEGLSRLDKGE/RR/RGKGHDG/LYQ GLSTATKDTYDAFHMQALPPR
3841	11892	A	4781	17	283
3842	11893	A	4782	2	673
3843	11894	A	4784	131	523
3844	11895	A	4785	197	582
3845	11896	A	4786	235	416
3846	11897	A	4787	280	569
3847	11898	A	4788	208	486
					VQRHCLAGLJHHPFQKWNPKDQLDPIW RQRRSTSPRAPGRGPARGPAPSPAP RGWRRWRAGFRQRTPHTGPPAPTKAAT LLAGREPR
3848	11899	A	4789	190	594
3849	11900	A	479	15	405
					GTGAMAPW/AGGEHSRMNPRLAV/WL TLTAFLLTLQLLPPGILPGCAIFQDQI RYGKTKCGEFSRVPVACRAFDVPKYFSSH LYTISFLWNDISAFW/LFLFFI.FLTPL.FSY LRFHFHSLASCFFHLV

3850	11901	A	4790	523	722	
3851	11902	A	4791	171	320	QDIFSSSRQLEAFSNCKRTQRTCRTNR MYR*RYSCGGTE*GSYPTNL
3852	11903	A	4792	243	445	
3853	11904	B	4793	320	434	XQCPLNRMAGHISSPYRSEAVSSPGAP VRTGPSWEPGK*
3854	11905	A	4794	146	609	
3855	11906	A	4795	874	1126	
3856	11907	A	4796	1	957	
3857	11908	C	4797	209	406	MTRCGSLGPSPLQGVYMATVRRGDSVW WGTECGRDSPAVRVSIFLLCSCGWWS RGLTPWRPCGP*
3858	11909	C	4798	133	237	MFMDXXXXXXGGGRPKGSLGDPKFTAC KVKKFSL*
3859	11910	A	4799	250	422	ASAMV1STSTPGSILMEVICLTISEGLCKS MSRL*ILWKRSHVLEPSQGVFLVVI
3860	11911	A	48	1662	1858	PSFLETEPCSIAQARVGWHDLGSLQPLPP VGSSNSPASASQVAGITGA*HHARLIFI.FF VEMGCAE
3861	11912	C	480	80	370	MWAPREQILGWAAEALPKADSAWPWE EKPRYLGVPFTEDGAVLFTAEWKRSL EQRNLYQEAMLENLRNL.GSLXXXXXX XXXLALDLNLGFVWL*
3862	11913	C	4800	33	158	MRMQQPSVKPGFKDLQCKCTMPLLLM KYIVLENGLKIFLR*
3863	11914	A	4801	3	344	AQDRLHWGOTQNOQRGHHALVPAEV* WDHPSWQINSRFVFPKEQ*KVFSTSSSSS GGAVLKNPWGGQSLRGLARKNLFPYRG PNKLNPGNFGKETLLWGGDKLGQPPSR NRL
3864	11915	A	4802	7	1268	
3865	11916	A	4803	65	376	
3866	11917	A	4805	64	1355	
3867	11918	A	4806	2	451	AQKESRSAVQRSSWKLKPLIVLSPLTQTL TVQSTWSTCPVSRVLTLSQJLGVHSRSL SSCRDRDEGSDTDPEATEPQGNPNPUPSC* GAFTA WGRMEPPAPQHPGDFPTPL*MS WC*DCVNPKTTHGPVLWPPFEAKTKQP DTLCSGAGLY
3868	11919	A	4807	239	580	ASTREVSLSGRTWPMMVVPPTSAAWG MSLLSCTPLCFLCPRLSDR*PCSKAFSSD PRSSRRQVEWHLVKALPSPSEDAPPAA RNSPA EASPVMQPQNFLISAKPNPLASL
3869	11920	A	4808	1	180	FPLGLPHPCSNCHI.P*APSPLLPG*PPL SSQPLSEERGSEGREGVDAHTARLAP NG
3870	11921	A	4809	1018	1284	
3871	11922	A	481	1	1083	
3872	11923	A	4810	704	978	
3873	11924	A	4812	63	131	
3874	11925	A	4813	204	448	
3875	11926	A	4814	397	553	
3876	11927	A	4815	361	764	RSKYAASKPALAJWDHHPGNLVRISAVH *RHTWFKLJLFNVIIFTVFSSSHFNLLFLF CLFHIIHFDFDQPGHCHLCVTPATCVRHL GIMRKSC
3877	11928	A	4816	137	262	
3878	11929	A	4817	265	394	
3879	11930	A	4818	1817	2233	RITFOERLQARSRRREVGSGARPKTAROVC RLPAAAAKSPLARSRSACFRCLQKVTEE REGCRITGSP*TSSFTKTLRTITPFTSHKR RVGIIQSNQPPEPDNSNDRTLRPEPECGCW SESWAPPFASSNRLPGSESME
3880	11931	A	4819	569	950	

3881	11932	A	482	3	503	TGTPVSTISWCYLVCLLLACVRAQMW APREQLLGWTAEALPAKDSAWPWECKP IVLGPVTFEDVAVLFTEAWKRLSLEQR NLYKEVMLENLRNIVSLAESKPEVHTW PFCPLGFGSQQFLSQDELHNHPIPQFHA GNQLHPGNPCPEDQPQSQHPSDKNHRG AE
3882	11933	A	4820	1868	1912	TFVKN*DRSKHITY
3883	11934	A	4821	1003	1094	
3884	11935	A	4822	810	970	
3885	11936	A	4823	133	261	
3886	11937	A	4824	76	475	
3887	11938	A	4825	1	1647	
3888	11939	A	4826	1	1459	
3889	11940	A	4827	456	705	
3890	11941	A	4828	417	791	
3891	11942	A	4829	553	734	
3892	11943	A	483	138	2125	
3893	11944	A	4830	246	346	AFFENLLRVCKKLYSVFTQMPKMNFFAN VFIGAN
3894	11945	A	4831	3	241	SCERARFWAAAVAGVAATRVRRLAIT GLTMERKVVLALHARKKRTKAKKDKAQ RK*RLVPQHPILWIFLRHLLCSGFTS
3895	11946	A	4832	195	266	GVWRPLSGCNASSSA*SQEPCIT
3896	11947	A	4833	1	1278	
3897	11948	A	4834	2854	3176	PVISSSVCRASPKSRIFSSQSSFTARLLGF RSL*IMSAECIYFRPRRIW*IRN*TWSVS F*HFHNVVQICPHEMGHQIHIIIEFLQRPC RCKNVQQTNHIFMFHMFK
3898	11949	A	4835	1	2991	
3899	11950	A	4836	472	575	
3900	11951	A	4837	1	248	
3901	11952	A	4838	676	788	
3902	11953	A	4839	212	677	
3903	11954	A	484	1	2580	
3904	11955	A	4841	92	316	
3905	11956	A	4842	1	578	
3906	11957	A	4845	788	1173	
3907	11958	A	4846	35	406	SGTPASPCLEMDPNCSCSPVGSCACAGS CKCECKCTSCKSECRAPPANLGDGPS *SREPRALQAGAGQ*PASNPNPSFT*FRIR PQLAKMGGCCSCCPVGL/CAKCAQGCIC KGTSDKCSCCA
3908	11959	A	4847	299	981	
3909	11960	A	4848	152	797	
3910	11961	A	4849	1	124	
3911	11962	A	485	1	687	
3912	11963	A	4850	2	719	
3913	11964	A	4851	98	263	
3914	11965	A	4852	741	965	AHLPFELLSPCPSPSLGGPRPRSHCRW*HCP RLRAAPPA*SALCLGGCECEVAAPGRW YCWVPGDRACSPHTCAR
3915	11966	A	4853	105	284	

3916	11967	A	4854	407	1815	TRATRWRKRTKRYTLRKTERWSPRVID SASR/HAPGNGLYVNYGLKALNIHGGQK LTIAEHHGAYGATADMSAKIGGEGDЛА NTVRQVLSLSNGQNDYQGATYVQMGTLR TDADGALGNTRNLNISNAAIIDLNGSTQ TVETFTGQMGSTVLFKEGALTVNKGGIS QGELTGGGNLNVTGGTIAJEGLNARYN ALTISIPNAEVSLDNTQGEPFSKRRQTRK EFLSRMEOILPWNQMVVEIEPYPKAGN GRPYPLETMLRHCMQHWNLYSDGAM EDALYEAJASMRLFARLSLSDALPRTITM NFRHILLEQHOLARQI FKTINRWLAEAGV MMTQGTLVDATIEAPSTKKEQDPRDP EMHQTKKGHQWPL WHEGPHLVTTAA NEHDLNQLGNLLHGEEOFVSADAGYQG APQREELAEVDVDWLIAERPCKVPARHR LSAHGCVLYTALSRRIVALPLPVSAPP
3917	11968	A	4855	1020	1352	
3918	11969	A	4856	491	628	KITINWRCSRWPTCFGRTK*YDWHRQ MTPRQRQAVLWTKSPKT
3919	11970	A	4857	1	1872	MVIVPIGYAAQELFDVSDQVRGTTPVGAT TIAGGDGSRQPSQEELSIARYQGEYVAG VRYRSTFYPGIS/ALSVLSHILVLYCTAGL HIGA/AVIPTRYA/CNSEFSSKRQRIKE FLSRMEOILPWNQMV/EVIEPYPKAGN RRPYPLETMLRHCMQHWNLYSDGAM DALYEAJASMRLFARLSLSDALPRTITM FRHILLEQHOLAROLFKTINRWLAEAGV MMTQGTLMHQTKKGQNWHPGMKAHIG VDAKSGLTHSLVTAAANEHDLNQLGNL LHGEEQFVVSADAGYQGAPQREELAEVD VDWLLAERPCKRSASCIOQLNNTTMIVYT HDQTEAMTMATRIVIMKDGVVQQAER NDWHTITGAMYEJENVEGYGEDLDGLA DPSVYFNAANGPCRAJALGYVHEGPNEN RAPEEMRSFLDAGAEYNGYAADLIRT WSAKMTNDYAQLVKDVNDEQALALIA MKAGVSTVDYHIFQFHQRIAKLLRKHQII TDMSEEAMVENDLTGPFMPCHGIGHPLGL QVHDVAGFMQDDSGTHLAAPAKYVPLR CTRILQPGMVLTIEPGIYFIESLLAPWREG QFSKHFNWQKIEALKPFGGIRIEDNVVII ENNVENMTRDLKLA
3920	11971	A	4858	1231	1407	
3921	11972	A	4859	491	553	
3922	11973	A	486	444	843	EKSVYSLIFPCVFFLPSTWEKEDAVNLQ FWLAADNFQSQLAAKGQYDQGEAQN DAMILYDKYFSLQATHPLGFDRCTIKKI ESNIRECGGPLPNCFTPLRQAWTTMEEK VTQNFKRNIKLQEVLLVELNKI
3923	11974	A	4860	3	278	
3924	11975	A	4861	2455	2871	
3925	11976	A	4862	656	949	LLIIRFCRWPALAPGAILRQIPKKQQRVG LHYSPPMSYVSWRYRVCWHTITVFCLSK TLATSYARPASISVKNTKWRCPPLPKVK TNH*NIIRICLPPPR
3926	11977	A	4863	448	582	
3927	11978	A	4864	495	920	WRRRDRCAASHHIFA VSVTIGSSRDPDAG SLPVHSWRKERRSALYLHRSSRSRHT YPRDRRRRAFWFVQPRCWLAII.SGH* GGCT*NIKSHQLGTSQTLRVCVNHRCR RCSRSDRPRRLRVLWSWHARKYQTPGRCS R
3928	11979	A	4865	1	2799	
3929	11980	A	4866	3675	4064	VSSDQNRRFCNRCYGRLOPGGCFSLWC QFSASKSYLSPSDL**W/*QLSPSASRLPL ASLTISSSLCAGSASFHS/RHPIGRCTCR YLRVFGVAFWAWVV**HVDFLKSQQGKS

					AKKRQIAEKGRNYTQNP
3930	11981	B	4867	1	2325 MNLMEQPAKDQYLSTQGLPVLVNSLAR YPOEALPITNYFASELAPAVARAFNKL KTLRENARSWLLKYPEHALTGLPAALG KAGEAQDNARAALRMLTENGHOPILLQE IARRYNOPEVTDAVNALLALDPLDNHPT KIPTLPAFYQPSLWTRPVLKANAQSPLDS ALLHLGEMILRPFQEALYPLQLQVKDVC SADSLAGFAWDLFTA WQTAGAPSKESW AFTAEFSKRRQTRKEIFLSRMEQILPWPQ NMVEVIEPFYPKAGNGRPVPLETMLRI HCMQHWWYNNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHLLEQHQL ARQLFKFTINRWLAEAGVMMTQGTLVDA TIEAPSSTKNKEQQRDPPEMHQTKKGNNQ WHFGMKAHIGVDAKSGTHSLVTAAN EHDLNQLGNLLHGEKQFVFSAM/PAKEP PPSKRAHTGRVAKESNQRWCSDGFEP CCDNGERLRTVTFALDCCDREALHWAVT TGFFNSETVQDVMLGAVERRGNDLPS PWEWTONGSCYRANETRQFARMLGLE PKNTAVRSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEFAFEHYNEWHPHSA LGYRSPREYLQRQACNGLSDNRCLEI*
3931	11982	A	4868	82	199
3932	11983	A	4869	882	1091 VCHAAPPILRTTATSVPAVPGAAASDGSY AAQFAAYIAC*LRAAFPSGGIHTAASHPS SISPRQRTAGS
3933	11984	A	487	77	199 SKSRPIASNKIEAIJKSLPAKKP/GPDGFAT EFYQITFKEEL
3934	11985	A	4870	3	274
3935	11986	A	4871	2888	3076 KTIITNWRCYSRWPCTCFGRTK*YHWHL LSMRQLMVLWSWKISSWFMGPPIURKSI LAENSI
3936	11987	A	4872	1	2043
3937	11988	A	4873	222	513 PEGAPRTPGPLPRAPGRTSEGAGRGGP LGPVVTMCLPRRQLSYPDVG*AEGLLPA LDWPWPGHARGSEGPRRQGGAVLAVRLG GRVYVHLJITPGQ
3938	11989	A	4874	20	161

3939	11990	A	4875	1	2251	MAPGVAGPLRAMGRQALLLALSHRRQGLYFHIGETEKRKFIEEIPDETMVIGNYRQMWDXDQKEVFLPSTPGLGMHVEVKDPDGKVVLSRQVNGSEGRFTFTSHPTGDHJQICLHSNSTRMALFAAGKLYREERFRLTSESTNORVLLWWSIAQTVILITGTIWQMRHLKSFFEAKKLVRVRAALLSSAMEDSEALGFHMGLDPRLLQAVTDLGWSRPTLJQEKAIPLALEGKDLLARARTGSKTAAYAIPMLQLLHRKATGPVVEQAVRGLVLPVTKELARQAQSMIQOLATYCARDVRVANVSAAEADSVSQRAVLMEMKDPPVVGTPSRILSHLQDSLKLRLDSLELLVVDEADLFLSFGFEEELKSLLCHLPRYIQAFLMSATFNDVQALKELIILHNPVTLKLQESQLPGPDQQLQFQFVVCETEEDKFLLLYALLKLSLIRQKSLLFVNTRLERSYRLRFLFQFSIPTCVLNGELPLRSRCHIISOFNQGFYDCVIATDAEVLGAPVKOKRIGAEGPKGDKASDPEAGVARGIDFHHVSAVLNFDLPPITPEAVYIHRRAGR**CDGPJICMVTARANNPICVLTFLVLPTEQFLHGKIEELLSGENRGPILLPYQFRMEEIEGFRYRCRDAVRVTKQAIERARLKEIKEILHSEKLKTYFEDNPRLDQLLRHDLPLHPPAVVKPHLGHVPDYLESKVPEPTAQQLQAQRKEIQTHSQALLRLLGLSGAEHIVHRLTPFDRRGSGAYCTA
3940	11991	A	4876	2	2318	
3941	11992	A	4877	866	1150	
3942	11993	A	4878	417	872	
3943	11994	A	4879	3	282	
3944	11995	A	488	29	380	SETPQAPTLPTQGSLLGEERMEDIRTITVALFTLCCPGSDEKFVFEVHVRPKKLAVEPKGSLEVNCSTTCNQPEVGGI\ETSLIDKVFAGETQAQWVKHLLGSSNLSPLD\TVL\HCHPH
3945	11996	A	4880	2	437	
3946	11997	A	4881	336	442	
3947	11998	A	4882	523	630	
3948	11999	A	4883	1	1004	MAPWPHENSSLAPWPDLPTLAPNTANTSGLGPVWEAALAGALLALAVLATVGGNLLVIVAIAWTPRLQTMNTVFTSLAADLVMGLLVVPPAATLALTGHWPLGATGCELTWSVDVLCVTASIELTLCALAVDRYLAVTNPRLYGAJVTKRCARTAVVLLVVVVAASVFAPIMSWWVGDAEAQRCHSINPRCCAFASNMPYVLLSSSVFPLPLVMLFVYARVFVVAATRQLRLLRGELGRPPPEESPAPSRSLLAP/AGPYANSAFNPLIYCRSPDFRSASFRLLCRCGRRLPPEPCAARPAFLPPSGVPAARSSPAQPLCQLRDGERHL
3949	12000	A	4884	144	1423	
3950	12001	A	4885	1309	1702	
3951	12002	A	4886	1	648	
3952	12003	A	4887	1	1049	GGGGTTWASVPPRHLACLRPAAPLRLPSPARRAMPVAGSELPLRPLPAAQERDAEPRPHGELQYLGQIQHILRCGVRKDDRTGTGTLSVFGMQARYSLSRDEFPLLTKRVFWKGKVELELLWFIKGSTNAKELSSKGVKWIDANGSRDFLDSLGFSTREEDGLGPVYGFQWRHFGAEYRDMSEDYSGQGVQLQRVIDTIKTNPDDRJIMCAWNPRDLPMLALPPCHALCQFVVNVSESQLYQRSGDMGLGVPFNIASYALLTMYIAHITGLKPGDFIHTLGDahiYLHIEPLKIQLQREPRPFKVLJRLRKSS*RKLIJDFKAEDFQIEGYNPHPTIKMEMAV
3953	12004	A	4888	437	851	

3954	12005	A	4889	1	1063	
3955	12006	A	489	27	406	
3956	12007	A	4890	496	701	
3957	12008	A	4891	875	1156	
3958	12009	A	4892	76	382	
3959	12010	A	4893	71	228	
3960	12011	A	4894	69	242	
3961	12012	A	4895	146	431	
3962	12013	A	4896	3	262	
3963	12014	B	4897	185	338	MSTTIFMGRSQATGGCVQTDIPGPPTLQ DTQQQLSVVHPDIQLEVGFPGGGX*
3964	12015	A	4898	69	303	
3965	12016	A	4899	260	881	
3966	12017	A	49	245	616	NPPN*NPPNACVKPEFENQPKLKWSQRG VGGPRREGPPAQAPEGTAGRRADKL.V RVGWRPPPAITSAQGSAHSPPLC*SSRSR GPSSPCLEAPTPGASPST*TITPPRRAWRR ACWTWPCSCPCTPCG
3967	12018	A	490	191	1074	RJPEMSSFGYRTLTVALFTLICCPG/SDE KVFVEVHGEAAGSWAVEPKGSLAEVNCAST TCNQP*SGVGLGDLSD*GFCWDEQVQ LWKHYLGFOTFSHDNTVLQCHFTCSGK QESMNSNV/SALYQOPRQVILDTCNPLL GGFLGKSFHHLKLQGVFTVEPLGQP*PSF LVSVGNETLHYETFGKAAPAPQEAATATF NSTADREDGHRRNFSCLAVLDDLMRSRGNNI FHKHSAPKMLEIYEVPSDSQMVIIVTVVS VLLSLFVTSVLLCFIFGQHRLQQRMGTY GVRRAWRLPQAFRP
3968	12019	A	4900	373	491	
3969	12020	A	4901	1	232	
3970	12021	A	4902	3	701	
3971	12022	A	4903	3	1622	
3972	12023	A	4904	26	168	
3973	12024	A	4905	258	484	
3974	12025	A	4906	1121	1518	
3975	12026	A	4907	19	541	
3976	12027	A	4908	288	561	
3977	12028	A	4909	1	1857	
3978	12029	A	491	3	403	SWSGSAAALRMRPVRLMKVFTRRIPA EGANLKVISTMSVGIDHLALDEIKKROIR VGYTPDVL/TRYHRRTRSLPATYHLPV AGHHRGSEEWWWWTWSKPLWLCGYOL TQSTVGIIGLGRIGQAIARRLKPGF
3979	12030	A	4910	81	414	
3980	12031	A	4911	1	507	
3981	12032	A	4912	519	858	GLSEILAIGFCPHQVQRGPLGKVQLQS/LA AQLPGPFTLVRHQRQLSHAVPKCIIHVP CSFTLFHLPQEGLQRPEFLAPWGLHLLKA TPVWPFANPRCCSILGAGGYFVQLTLGM S
3982	12033	A	4913	67	467	
3983	12034	A	4914	2	307	
3984	12035	A	4915	1	2112	
3985	12036	A	4916	796	1018	
3986	12037	A	4919	512	625	
3987	12038	A	492	2	465	DAAGANLKVISTMSVGIDHLALDEINKR GIRVGYTPDVL/TRYHRRTRSLPATYHLP PVAGGHRGSEEWWWWTWSKPLWLCGY GLTQSTVGIIGLGRIGEAPTPGLARPGSHS VVCIPGTCLKAEKTHMLSGHFACSRDIS NEGYSFVKHRQIHK
3988	12039	A	4920	206	366	
3989	12040	A	4921	504	690	

3990	12041	A	4922	3	336
3991	12042	A	4923	22	129
3992	12043	A	4924	852	1364
3993	12044	A	4925	1	897
3994	12045	B	4926	449	2578
					MLLECEEEEAVCIVIMCASVKVNIRGPAJIP RMKTKHRIYVITLFSIVLLGLIATGMPQF WPHSISSNDWNVEKRSIRDVPPVRLPA DSPIPERGDLSCRMIITCPDVYRCGPNPK NKKVVTYALKKYVDDFGVSVSNITISRE YNELLMAISDSDYTDINRACLFVPSID VLNQNTLRIKETAQAMAQLSRWDRKGTN HLLFNMLPQGGPDYNTALDVPRDRALL AGGGFSTWTYRQYDVSIPVYSPLSAEV DLPEKGPGPRQYFLSSQVGLHPEYRERD LEALQVKHGESVLVLDKCTNLSSEGVLSV RKRCRKHQVFDYPOVQLQEATPFTVVLRG ARLQAVLSDVLQAGVPPVLAQSYILP FSEFLWDWKRASVYVPEFKMSDVYSLIQS IPQRQEEEMQRQARWFWEAYFQSIIKAIA LATLQIINDRIVYPAJISYEEWNDPPAVK WGSVSNPLFLPLIPPPQSQGFTAIWLTVDR VESLFRVITEVSKVPSLSSLKLVVWNQN KNPPEDSLWPKIRVPLSLVVRTAENKLSN RFPYDEIETEAVLAIDDDIMILTSDELQF GYEVWREFPDRLVYGPGRRLHLDHEM NKWKYESEWTEVNSMVLTGAAYFYHKV FNYLYTYKMPGDIKNWVDAHMNCEEDIA MNFLVANVTGAKAVIKVTPKKFKCPECT AIDGLSLDQTHMVERSECINKFASVFGT MPLKVWEHRA*
3995	12046	A	4927	533	804
3996	12047	A	4928	965	1109
3997	12048	A	493	217	426
					TLMNMVEADVTIRCLIRSGIRVGYPDV L/TRYHRHRTRSLPATYHLLPPVAGGHRGSE EVSERPPGAVAHGC
3998	12049	A	4930	507	981
					CWRSTATCYQWVVIKSANRCTLQVGTRR RTMDNGDERHSRICPGM*EAARSFLIPT/ CQTRH*RPVPQRLLRSNTAPIRT/RPRPSV HRPTGRERSMRTRPPEPEPLQTLAATKR RSTSENASYSDALLRGLGKLSGKDREAR RGRSPRPGSRVQTAGAAL
3999	12050	A	4931	1121	1272
4000	12051	C	4934	178	360
					MGQELRHFGTVTWPMLHRKMERRXFFPRE QGPGXQLLPQWRGNEKTLGSAGRQGED HRLRAE*
4001	12052	A	4935	409	516
4002	12053	A	4936	288	573
4003	12054	B	4937	1	1152
					MGEAGCLVRAERFQLIVERDVRSSFPS WKELSMSPGFHQKQQARVYVVOFFLADALI LPVPRPCLHSATPSTPQTDPGPEGPHILG QSRLLFLCHKEALMKRKNFCVPPGASPEV PKPALSFYVLGSWLGGTQRKEGTGWGL PEPQGNDDNDQKVHLLFFGSSVRWFEL HPGOVYRLIAPGATPMFLFEKDGSSCISR RPLELAGCASCLTVQDNWTLTELESSQDI QDVLDAKNSLPESSTLTDLLSDKSHNVY CFRSSTYVQVLSPPETTISIPLPHYLAEL LQGGQSPFOATASCHIVSVFSLQFLWV AYCITSICRQSSARVDEPMTMFLWTLCTS PSVLRPVLFSLELERKPSKIVPLGTPSRSS FOFPAARAKGGK*
4004	12055	A	4938	409	701
					KEKVVKVNWLNNPLPKAQEFGYPSPSLPA TLHKLGLSRPCKLQDH/CCCHMVHTGH HGFGPSPILHQEPMGSRKYSRL
4005	12056	A	4939	301	573

4006	12057	A	494	80	1058	RCSSPAGYPPRCRVALARAAADCVEEQW DSDEPIPAPIAKELERGVAGAHIGLLCLLSDH VDKRILDAAGANLKVISTMSVGIIDHLAL DEIKKRGIRGVYTPDVTRYRRTRSPLPC SYHLLAPLAGGLAQSEEEWWWTSWKP LWLCGYGLTQSTVGIIGLGRIGPGPLLGV LKPGVGVRFLYVTGRQPRSIEAAEFAQE FVSTPELAAQSDFIVVACSLTPATEGLC NKDFQKMKETAVEINISRGDVVNQDDL WQALASGKIAAAAGLDTSPPLPTNHP LLTLCNCVILPHIGSATHTRRNTMSLLAA NNLLAGLRLGEPMPMSFLKL
4007	12058	A	4941	339	494	
4008	12059	A	4942	408	546	
4009	12060	A	4943	1421	1581	
4010	12061	A	4944	1	1113	MHQEDLRAWYLDGLPSHQNAQPTAW KCQRAFPSPYTHQDMAILSPPTARWLSPPE KEPKQGEVGEKSSLPPDPTPLTIDPRLTGS TEQAHAEGLAALMSALRVSHLQGRGGV VTLVDSQLGVIAVSSQFNKGPSPYRLLA DVQNRLLPKYDSQKEAELRSWIKGFTGL SIRPDFQKGLKDGIILCTLVNLQFQGSPV KINASV*NW*H*LENLNSNFLKAMVSYGM /NPVDLFEANNLFESENQNNMQVRVSSLAL AGAKAKTKGRSGVDIRDXEYSEKQNFDD TTMKASOCVIRLQITNKCASQSGMTAYG TRRHLYDPKRNRLPPMDNSTISLQMGTN KCAASQVGMTAPGTQRHIYDTKLGIDKCF NNSMSLKGVT
4011	12062	A	4945	272	902	
4012	12063	A	4946	281	470	TGSWSQCTPSC*TTMCVYTFMTYTAW GCPNNHVQPHAP*PVSPVTLNNVGFRAKA VFSGHGYL
4013	12064	A	4947	1192	2248	APSKKLRSATLRRPGSSKDARTGPVSVG WCPSQELPLGARCATSCPWLCLRPSSVFS PRALAIRLGGGSGLSAGCAARLOGSVP CWPLARLRSASATPLSELRQOPRAPPBRC DPSGSRSLVPVAPCPAPRAPOPRRLPSPGP RFRCRPSLSVCRSLGPVSPPPQPFLLPCCLP RWLARSLALGRGETASQANPRNLCKKL AMFKKKFFDFGAIFEWQSQSPFLSPVVRP PLEPEGSPVPASLPERPSRHPASSSGRLQ DPLGLILCSLCHYLFIIRDYAVVTRAGNG GECVWLOQKFVVKLASLMMMSFGLYIGHF LGVPANPOEAPRTRSFPTPKSVMEPSAV PGTAERVLHPG
4014	12065	A	4948	654	730	
4015	12066	A	4949	1574	1881	
4016	12067	A	495	3485	4056	DPLSRHRVMEAIICHVCCVRRGOCV/CAC /ICVHMCWSVWCVRCCVLPQVLCV ALCVICVCCLOCARYWVCMCCVCSVLC MRCV/CVCPVRLCVCVCCGCSRCSVW CVCCCRV/CLCV/CACAV/CVCCMC/L CVLCV/CACAC/CCVCRVCSVWCVRCC/ CVCCACSVWCVL/WCVC/CVMQCVCY WCMCCVCCVLE
4017	12068	A	4950	207	315	
4018	12069	B	4951	199	420	MSLPIGYRRAVSYDDTLEDPAPMTPPPS DMGSVPWKPVIPERKYQHLAKVEEGEA SLPSPAMTLSSAIDSVDK*
4019	12070	A	4952	336	594	
4020	12071	A	4953	401	1301	
4021	12072	A	4954	388	681	
4022	12073	A	4955	272	452	
4023	12074	A	4956	256	381	
4024	12075	A	4957	58	301	
4025	12076	A	4958	562	1221	

4026	12077	A	4959	152	358	
4027	12078	A	496	1	858	
4028	12079	A	4960	184	361	
4029	12080	A	4961	2017	2406	
4030	12081	A	4968	1	396	
4031	12082	A	4969	67	180	
4032	12083	A	497	106	542	GATLGGMSEHVEPAAPGPGPNGGGGP APARQPRHPQFSTPTPLINVRDRLFHAI FFKMAVITYSRLLPPAFRRLFEFFVLLK ALFLVFLVAYIIVFSRSPPINCLEHVRD KWPREGNPALWKVRHNSSRAPVFLQAC D'SGGR
4033	12084	A	4970	2	415	
4034	12085	A	4971	1090	1203	
4035	12086	A	4972	3	356	VONRTLHFSSLYEPRKRKSKPESYLYCYKI FQDEPLAP*AFL*IPASLSQI*FTSRKGK ASQNLIYIVIKYSKMSLWPPPEPSCKYLLPP CLKSNSSQLSWLWCVLWVGWGVWGYC QGWGPPPLHLVSLWGGYASRWEIDGK QHITSLRGVPKGIVIFUYI
4036	12087	B	4973	148	305	MDNSASVEQLQETTLRALRALVLKNRPL DTSRFTKLLLKLPDCGPFISSLGHN*
4037	12088	A	4974	484	927	
4038	12089	A	4975	2053	2615	RGCPCFGGRKAPPGLLNFNVKDQTVMFLSR TTYSLQELGAMGMGDLLSAMFDFSEKL NSALTEELGLFVTAVLLVSADRSGME NSASASVEQLQEVTLRRAVLRALVLKNRPL TSRFTLLLKLPLDLRTLNNMHSEKLLVLS GWATPVTTPRAGLSSAGCPLCTESELCTS LSFYETEKEKQTRILFILL
4039	12090	A	4976	173	520	
4040	12091	A	4977	44	213	
4041	12092	A	4978	840	980	
4042	12093	A	4979	72	464	
4043	12094	A	498	309	586	NKNLLEISFFFETESRCCQPRLECGNAISV HCNLCLPGSSNSPTS/ASQVAEMTGVCH HAQLIIFVFLVAMVFHLH/VGQGGLELLT SGGPPASASQ
4044	12095	A	4980	1	132	
4045	12096	A	4981	99	212	
4046	12097	A	4982	84	196	
4047	12098	A	4983	2	186	
4048	12099	A	4984	87	347	SLNFHIGQ*AQPHAGFGLRGS*GPCPPCC QANAC*APEPNDSMEDQAPGVRHPLSN VKIQGSE
4049	12100	A	4985	176	1554	
4050	12101	A	4986	1	1863	
4051	12102	A	4987	1171	2784	
4052	12103	A	4988	176	464	
4053	12104	A	499	3	451	
4054	12105	A	4990	7	394	HHELQYPIRFCPIKSCKGRNLSQNKIYD LSLQNFPATLRQNLALSPRLECSGTISAP CNLHLPGSSDSPASASRVAVAGNAGMHCH KQULFVFLVETGFHIVAQAGLRTP*PCG SGPPRGPKSAGDLQ

4055	12106	A	4991	1	2201	MTNLAMVERDSEAGTAASRFPGNHAAK GKAQAHYKVWRPAEVCRCLLGPPEWV LRYTIKHPYKLCGKQRQHVFFFFSRSDV GFMLLTLLKPGGSV'STESKMNKNAGSFF WNLRLQFSTLVSTSRTMRLCLGLCKPKI VHSNWNLNLNNFHNRMQSTDIIYLYLFQDA FIPKSDVGFQTKGISTLTALRIERLYAKR LFD-SKQSLVP/DKSDDELKKVNLNHEV SNEDVDLTKEPKPNRISRKLSSECNLSLD VLDASFKAFTFPSSNNYFTAMWTTIAKRLS DDQKRFKEKRLMFSHPAFNQLCEHHMRE AKIMQYKYLLFSLHAIVKLGIPQNTILVQ TLRVTQERINECDEICLSVLSTVLEAME PCKNVHVLRTGFRILVDQQVWKIEDVFT LQVMKICIGKDAPALKRKLEMKAUREL DRFSVLSNQHMFEVLAAMNHRSLILLDE CSKVLVDNHHGCPPLRIMINILQSCKDLQY HNLDFKGLADYVAATFDIWKFRKVLF LILENLGFRPVGLMDLFMKRIVEDPFSL NMKNILSILHTYSSLNHYVKCQNKEQFV EVMASALTGYLHTTSENLLDAVYSFCL MNYFPLAPNQLLQKDISELLTSDDMK NAYKLHTLDTCALKLDDTVYLRDIALSLP QLPRELPSSHTNAKVAEVVLSLLGEGH FSKDVBVLPHNYHIDFEIRMDTNRNQVL PLSLDVGTTSATNDIQLLTYISFAGLSEL KS
4056	12107	A	4992	3	485	LHTLDTCALKLDDTVYLRDIALSLPQLPRE LPSSHTNAKGGQRS*ALLLGGEGTIPSK DVHHLAPHNYHIDFEIQTGTPRNPSAYAP LSUDVDTTSLCLQIFKE*LCYVFPRSAVCLG SSHPRGLFLAMKMRHLNAMGHFIVL VNN WEDQTRDGRQCSFLKT
4057	12108	A	4993	40	131	ATKAEEENEVYKTILVYVYCCFKCVILKA *SL*FRILTEWFYMRWLKYHVCF/PLG DAKIFCFMYITVLFKTLLEDSC*TLVYVCF FKCVILKASL
4058	12109	A	4994	2437	2762	GHILWAQLFPASFFFFF*DGVSLCCPG WSAVVRSQTLASSASRVAQALCLSLPSS WDYRHLHPCLANFVFL/CRDGGFTMLA RLVLSN*AS*VHPPWPQPSAGDY
4059	12110	A	4995	1	299	FSLIKJSMMLLMKMEK*NLQFIW/KPRL QIAKARLNASSSSSSSSSSSSSSSSVW YWHKCRRHIDHWNRLENSNINRHICSQLI LTKVPGANTKDHP
4060	12111	A	4996	3	358	
4061	12112	A	4997	76	386	VLPPPSSPALHSAPPSTCPYLPGA/PPPLL PPCAGRSPAAAAPHCPACPAWRPLPAPPID PTAPPAPRSHWPAAPPT
4062	12113	A	4998	66	381	VLPPPSSPALHSAPPSTCPYLPALPIE/G GPPSRRPPRTFIGNPGGQGPGEVSPIVLRS PSQPH*PGNQGPFCSSQQPGSPRSEHGC* HRCWALYQQQEKPAPS
4063	12114	C	4999	36	236	MGPTIPDXSXFWRKPPITWMPTWEIGTSN VGPQLSSSKSLHSXRGHPPAPIPTGQAGP RDSPGPAGS*

4064	12115	A	5	105	1711	VESNTGRKWTEAAGTGDIQCLAWGSSGDGRGGDPRGWPAALGAAVAAAMASPPWAPGPKQPG/LMGRPGSSPALWAQ\PAPPV/PGLTPCPQEV/PQSFGPPG/EQGRVLRGQNVIT*GEGRVPQVCGRRPPCSLMEPPVYTAPSPFPGQGQGTPGRQRQDGEPRLGTGGTGSPGPGLVSGPGRRAAKPGGTQGLVRQVPPGEHTPGEARI*HLGWVGC\*RMGQGNFGVASKPFLDL/PGPMLGSTNCDNLGSFGSL/GPMFPKWTSTGRLPKGPSAN*GG/PGMERPGVMPSS/GHQDPEASGPLLLVRAALQGG+ALGHKIGGAS*TSQKAESLPQPLGPFGGGCYG\TQNP LASPKQTWSMGRGSPSPALWAQNRLTFLTRPSPPCPQEVQSFQGPVGSQGAERARLSPRERGGFLKVCGRRPCPSMMEPSCLIITC*PLSLPASLRAKEPPSCGLRAPS*HLLRRPCLTPFPFPGQGLLGTSHCPQKPA PDSGLLHSPLNSPRGFSQGCNPQRLHQLPNSNRD
4065	12116	A	50	96	547	ADPAAPVVPWFGPSQPGARAQWPGLLGPAAPPALCSPP*TDGSVQDPPVSNAPWVNSQWWRQ/PAATEKPPATKAPGLVQEKYKVR*QKGW/PSTKAKGYFP*NCPLQFLLPPLSLPPGDISGQCPLPKPLIPPPSYAPACFGCPR
4066	12117	A	500	2	493	GLEFGTSRHLRENPPMVAWSVCPKIKINVKGPPGKVGAGHEYGSEALERMFLSFP TTKIYFPHFDLISHGFAQVKGAJAKVVAADLTKAVANVDDMPNGAVRPEATLHAHKLVEPVNFKULLKPLACLVDPGPAHLLGRVSPLAVALWPWNKVSWAFCGQI
4067	12118	C	5000	231	521	MRAPVCSQSVSYFTQTISLKPITVPGRCDAFQVTNNKLAQATQSEGVAGASNPDL ESHPAHGMQREFSGTAVSQADTVMNYPVNGWENRGS*
4068	12119	A	5001	46	1438	LSTPTALVWPGRHP*PIP*WPLCPQEGGPGLPGRGWSSGTVA*S*AGGCEGKJQS YPOQGSASWSEPA\PS\SPAP\PA\PP\FLM\NCSGPLALSLSGPKWAREQL*CVPPRALAT\GLPEVWL*LRPFPWP*CLPPP\GP\WVQL LHS\SSCW\GPPPM\PTIRG\PPGS\CR\LC\CP\CPAA\GL\PPWWLSSGQLPHPPG\PLCSVS *GPDQPPPLLCLSPWAPGLS\STALCHSRL VLPATP\VV\TW\PS\CL\ST\//PAPGAP\PT PAACFQ\QVPSA\PD\KPL\VS\SP\PA\KHP\VV\PP\PPVGL\LR\AMDR\PG\G\IP\ET\PR\DL\CP\CH\TPPKS\KL\Q\AR\GP\W\VV\DT\TS\GW\KL\KEALM\G\PT\IP\DK\SS\SS\W\A\PL\VS\PL\VL\GGN\SP\W\N\AL\RG\K\DR\PR\K\CG\N\Q\PP\SP\K\LR\K\SP\TA\PG\K\TP\A\PS\PRE\A\G\Q\K\TL\G\PR\G\PP\*SR\DP\PL\*L\RT\PA\DP\G\VR\TR\GA\G\PP\A\PR\RN\P
4069	12120	A	5002	1	874	LDDALESCDEHG\YRTASSCLRKGVMV\KSSNRELV*SRYTDITI\SGTSEFPDWA AGQRGSSH\PRRWAARQR\RSSLH\LFY\SEP DTDAKHQDD\AL\TEET*G/SRSASCAHW L*SNCC\T\G\ST\LL\PL\TS\RL\*L\PR\MAVK\SSRAS\ALP\SSR\FS\W\IR\AC\AS\PA\AA\TT\AA\PS\W\GL\SS\N\IP\SG\PA\G\CA\PR\PT\FS\LG\AL\PT\T\RR\I\SS\U\DR\SR\SP\SR\GL\TS\AR\EG\SK\SS\PO\G\T\AR\DS\R\Q\AL\RS\A\N\VT\K\TS\W\RM\EL\DR\EC\GR\SS\CT\T\FC\VS\A\SR\G\FL\LG\TS\PR\WE
4070	12121	A	5003	1	2487	

4071	12122	A	5004	227	2119	RCKRKEMFSLCWAYYCYI*KLQQIPMRLAP LPTLDPV*SPGGASTATNSGSVTSVGS TATISGSSVTSNGSVIVTNEFHITSSG TATNSEFSTASSGSLATNSSESSTTSSG ASTNSSESSTPSSGASTATNSDSSTTSSG ASTATNSDSSSTSEASSTATNSSESSTTSSG ASTATNSDSSSTSEASSTATNSSESSTTSSG ASTATNSSESSTVSSRASTATNSSESSTTSSG ASTATNSSESSTVSSRASTATNSSESSTTSSG ATNSSESRTTSSAGTATNSSESSTTSSG ATATNSSESSTPSSGAGTATNSSESSTTSSG ATATNSSESSTVSSGISTVNSSESSTPSSG NATATNSSESSTTSSGANTATNSDSSTTSSG ASTATNSSESSTTSSGASTATNSSESSTTSSG ASTATNSGSSTTSSGISTATNSSESSTVSS GASTATNSSESSTTSSGASTATNSSESSTVSS GASTATNSSESSTTSSGANTATNSGSVTS AGSGTAALTGMHTTSASAVSEAKPG GSLVPWEIPLTLVSVVAAVGLFAGLFFC VVSACVPLCECRDAKMPGGLLEQLL'TES RIVHWGTEGRPIATAEGWVLLAMKIRL AAEAKIKCFLDGMAAGLRRRSLSRLGSQ AALALPTSQTMGGQAETLSSQTGSRPNR GLESHLRRWAAQGRRLSLS
4072	12123	A	5005	124	670	FQRTKLLNGPGDVEITGTSITVQKKWLH VISPIFVQSVUTLPLAKWGDRLQLOLQIEL AAEVRSDI*EETV*NETYLLLCSRKTLD TLKWAHSIPSYARLFYI**FCSLKLAFSQ FLLPAUPYGVAVGVTGVLGHCLCTGLAVI GGRMIAOKISVRTVTTIIGGIVFLAFASFAL FISPDGF
4073	12124	A	5006	3	273	AAAPGNGRASAPRLLLFLVPLWAPAA VRAGPDEDLSHRNKEPPAPAQQLPQPQV AVVQGPPEPARVEVSGPGWGERCRAAGC AEYQAPGL
4074	12125	A	5007	2	986	AAAPGNGRASAPRLLLFLVPLWAPAA AVRAGPDEDLSHRNKEPPAPAQQLPQPQV PVAAVQGPPEPARVEKIPTPAIAPVHTNTE DPATQITNLGFIHAFVAISVIVSELGD RIFTIAIMAMRYNRPQPCWAGAMLCL AGLMTCLFS/VLFGYATTVIRGLYILMF QPVLFAGIRMLREGLKMSPDEQOEEL EEVVAEELKKKDEEFQRTKLLNG/PGDV ETGTTSITVPOQKKWLHFISPIFGQALTITF LAEWGDRS*LTTIVLAAREDPYGVAVG GTVGHCLCTGLAVIGGRMIAQKISVRTV TIIGGIVFLAFASFALFISP
4075	12126	A	5008	2	439	
4076	12127	A	5009	3	366	RDSVVEILFEQDNKEQSVATLILDSLIOP IDTRKQLAENLEMFDVKGKTOPPLLKRA FSTEK*KFD*TINLASYQIPNQL*ANCTK YVGGCFIEDYSGSESILCLLFALIYNSFDV VSIL
4077	12128	A	501	24	452	APSPDAMG/HSLWKGVNVEDAGGETLG RLLVYVPTQRFFDSFGNLSSASAIMGN PKVKAHGGKVLTSLGDAIKHLDLKGIF AQLSELHCOKLHVDPENFKLGNVILVTV LAIHFGKEFTPEVQASWQRMVTGVASA LSSRYH
4078	12129	A	5010	387	446	
4079	12130	B	5011	16	348	MVLDCGYRESLVLPIYEGIPVLCWGL PLGGKALHKELETQLLQCIVDTSVAK QSPLSPVMGSVPEGVLEIDIKARTCFVSDL KRGLKIQAAKFNIDGNNERPSPPPK*
4080	12131	A	5012	1	595	MGCRPVQGAGLELLTSARTCFVSDLKR GLKIQAAKFNIDGNNECPIDTRKQLAENL VVIIGTSMLPGLFHRLAIEIRYLVPEPKY KKALGTKTFRHTPPAKANCVAWL/G/K FVFI*QVEYAMKA VENSSTAIGIRCKD GVVLGVRKISPF

4081	12132	A	5013	3	461	YIEDDMNPFGQNLENEQRPRRSKSTFL*QGAAEIQKHLANFKNYQVFIGENMISDGMWLLDYVKGWVCPYMFKKVQDGLMDMKMLNKCGKLFWIYHFPVIIHNVASALSSHTRTRDLRQNWTDCIPHPGALPFILDWGFYLGVGGIICFYEKPCPW
4082	12133	A	5014	3	325	RRVSVSFIQAGVQWHLGLSLQPPPPGFKLFCLSLPRSDQYRCMPPRPANFC/IFLVEIGFHFAH*DCKLVSNS*PCGPPAPASOSAGITGVT/HRAHLPNV/C*LDLFFFHV
4083	12134	A	5015	1593	4449	PSGLGNTC1YRRGPILPNSHRHAARGRISADRRFRHLGHRELIHPACCPVGRGEPIPA PCVPGHGEHLHPALCVPGRGQLHSVPCIPGRGEPH/RCTLCPRSWA/RCTLHPRDLRFNRIREIOPGAFRRLRNLTLLNNNQKRI PSGAFEDLENLKYLYLKNEIQSISIDRQAFKGLASLEQLRLDSNLTLCDCIELWLADLKTYAEGNSQAQAAACIEYPRRIQGRSVA TTPEELNCEPRITSEPODADVTSG
4084	12135	A	5016	1	3174	
4085	12136	A	5017	1	4759	SRPWVLRASERPSAAPSAMAAYRSRGPRGRCLLALVLCFAWGTAVVAQKPGAGCP SRLCLCFRTTVRCMHILLLEAVPAVAPOTSILDLRFLNRIREIOPGAFRRLRNLTLLNNNQKIRPSGAFEDLENLKYLYLKNEIQSISDQAFKGLASLEQLRLDSNLTLCDCIELWLADLKTYAEGNSQAQAAACIEYPRRIQGRSVA TTPEELNCEPRITSEPODADVTSG
4086	12137	A	5018	2	267	ADLSAEAL*TRREWDDIFKVLCTSS/LQOPKILYPSKLSLINEASSSSSSSSSS/REFITRLVL*EMLKGILHMEAQGQYLP*KHTKV
4087	12138	A	5019	1	164	TRVNENQIESKAAYALFYKRQDVARRLLSPAGS/SPAGSPACSSSSSEMDVN
4088	12139	A	502	38	557	APSPDA/MGHFTEDDAKATITSLWGVNVNDAGGETLGRLLVVVPWTQRFFDASFNLSSAFCHPWATPKVKAHGKVKVTLSTLGDAIKHLUDLKGIVTFAQA*SETALVTKLHVGS*TRFKLPGEMLLGDPFLGNP/FGKRISPLEVRLSWAERWVTWSPWVALVLPRPLKLNCP
4089	12140	A	5020	1	712	EILIIHLKRFSYTKFSREKLDLTLVEPPIRSGARERMAGGRQKGEGVYQ*SPHPQDLDFSEFVIOPQNESNPELYKDYLIAVSNHYGGMRDGHCMCQAVVGGACPGQGSQGGDQDLPE*LGM*ASGEGSVVGRK*TRSEIWTLSEEARKGRG*LSPPFRITFACNKGSGQWHYFDDNSVSPVNEQIESKAAYVLFYQRQDVARRLLSPAGSSGAPACSSPSSSEMDVN
4090	12141	A	5021	3	3090	IPLQLLRLRWRRLGRWTEDREPOHEEPLGLDOSQWRQIENGIESGRERPLRAGESWFLVEKHWWYKQWEAYVQGGDQDSSSTFPGCINNATLQDEINWRLKEGLVEGEDYVLLPARAWHYLVSWYGLEHQOPPIERKVIELPNIQKVEVYFVELLVRJHNDLGSHTVQFSHTDSIGLVLRTARERLFVPEQEDTRLWAKNSEGSLDRLYDTHITVLDAALETGQJLIMETRKKDGTWPSAQLHVMNNNMSEDED
4091	12142	A	5022	1	1584	
4092	12143	A	5023	1	3519	
4093	12144	A	5024	3	673	
4094	12145	A	5025	3	2383	
4095	12146	A	5026	2	2348	
4096	12147	A	5027	1	7338	

4097	12148	A	5028	2	7106	KSKRQAQQMVQPQSPVAVSQSKPGCYDNGKHYQINQQWERTYLGVLVCTCYGGSRGPNCESKPEAEETCFDKYTGTNTYRVRGDTYERPKDSMIWDCDTCIGAGRGRISCTIANRCHEGGQSYYKIGDTWRRPHETGGYMLECVCLGNQKGEWTCPKIAEKCFDHAAGTSYVVGETWEKPYQGWMMVDCCLGEGSGRITCTSRNRCNDQDPASRYRIGDPWSNKVIHGNLQLQCICTGNARGEWEWKCERHTSVQTSS
4098	12149	A	5029	1	389	
4099	12150	A	503	318	449	ERKKKKMATVQKGM/PHKYYHKGTSYVNIQHAGVNAVTRNGS
4100	12151	A	5030	2	554	ADALGRPTRSPASQSRCTRSTSQVPGPSFGGGHGRGE/SGRAYWOPPYGSSE/HASGLRYWSRRLRPAAGSFAAVCSRVASKTPVGFGLGNMGNPMAKNLMKHGYPLIYDVFVFPACKEFQDAGEQVVSPPADVAEKAADRITMPTSINAIEAYSANGILKVKVKSILDDSSITDPAWSKELA
4101	12152	A	5031	1	1123	MGNPMAKNLMKHGYPLIYDVFVFPACKEFQDAGEQLCPLNDVNHPTVQRLHADTPWISHLAASVIGCCDIACLFSGRVYSISLCTTISQADEVERAKENKPIPQHPTKIAEMLVSSSPADVAEKAADRITMPLPTSINAIEAYSANGILKVKKGSLLIDSTSDTIPAVSKELAKEVEKMGAVFMDAPVSGVGAARSGNLTVMVGGVEDEFAAAQEJLLGCMGSNVVYCAVGTGQAAKICNNMLAI SMIGTAEAMNLGK'S/GDFPKLAKILN MSSGRCWSE*HFINFVPGVMDGVPSA N*LFRVDFGTILHWLKDGLAQDQSATSTKSPILLGSLAHOIYRMMCAKGYSKKDPSVFOFLREETF
4102	12153	B	5032	13	441	MEGVEEKKKEVPAVPETLKKRRNFAELKIKRLURK LKIKRLRKKAQKMLRKARRKLIEYEKAK HYHKEYRQMYRTERIRMARMARKAGNFYVPAEPKPLAFVIRXRXGINGVSPKVRKVLQLRLRQIFNGTFVFLNKASINMLRDCAIYCMG*
4103	12154	A	5033	1	775	RRVPAWVETLKKRRNFAELKIKRLURK KFAQQMLURKARURKLIEYAKHRYHKEYRQMYRT*NEWARMGKKKLANFVVAEPQIWRFVIRJINGNVSPKGSERFFQLRLRQIFNGNL*KLNGQFRFNMAEDF*S PYIAMGGTPNLKVSKMN*SYKRLGWAKSNKKRIALITDNLAIARSLGKIRHLAWE DLHIEIYTVAQGRKFKEAANFLWPUFKLSSFSIKVEMKKKTTTFVVEGQDAGNRQEDQINRLRRMN
4104	12155	A	5034	193	384	
4105	12156	A	5035	96	1636	ARSPAMAPLRPLLLALLAWVALADQESCKGRCTEGFNVDKKQCRDELCSYQSCCTDYTAECKPQVTRGDVFTIMPDENEYTVYERLGEEKNNATVHEQVGGPLSTDQLAQASKGQNPETPVLKPEEEAAPAVEVGASKP EGDISRPETLHPGPQPPAAEELCSGKPPDAFTDLKNGSLFAFRGQYCYELDEKAVRPGYPKLJNRDVWGIEGPMDAATPRTRNLFRGRPYLFKG*QYWRAFEDGVLGWPWYPRNWSWTADFGHSPGQTWDVAALGLPCPLAYSGRERVYVFQRQGKQYW/ESYOFPGTSPVQECECGSSLISAVFEEHFAMM!QDQS WEDIPFELLFWGAERSGWVTRQPQFHLAGEWIHGVPGIQVDAAMGIGRILHLQGMATRPLLWPKKKRFRHURRKQGRYRSIQRAHSRGR*PETPRRPSRAMWLSFLPSEESNLGA!NNYVDDYRMDLALCLPTECPIQECFFFSFGDKYVVRVNLTRRVDTVDP

					YPARSIAQYWLGCAPGHL
4106	12157	C	5036	1	300 MRSFGQLTLCPRNGTVTGKWRGSHVVG LLTLMFQDGDPDRNKTRTFQATVLGSQM GLKGGAGSVLQAAAGLGLPASLLWPS LLCHCYVLPPAPGVPLV*
4107	12158	A	5037	359	1229 MPQPPTLQOEMLTGPFSQPWTGKGLPQP* QLRAKAEVQEDSHLGRKKIKQQRNSKSC
4108	12159	A	5038	2	311 VRWNNSAAPLVTSRGAPASARPRQALP GGSAPSPAPHQLGRQAQPAVSGPPPTS GLCHFDPAAPWP/PGLGLGMILPPHQDW PAQP*HPPGLGLFFEIFSAS
4109	12160	A	5039	310	415 SQYFGTLRRVDHRLRSGVRDQPGQGLKTP S*PQVHPPQCPKVGLQYYHFLFLRRS L/DSV/AQAGVQWRDLSLQRPPGFTTF SCLSLPSSWDYRPPPLANFVFVSVETG FTVSAVMVSIS*PRDPPASASQSAQDTG VSQAPV
4110	12161	A	504	1	467 DHSSSPAREQNWMENIEFDLTELTEVGFR WVITNSSELKKHVLTOCKEAKNLEKRLG ELLTRITSLEKNINDLMEALKNTARELHEA YTISINSWINQAEERLSEIEDDQNEKRED KITEKMKNSTTWRVAAASMQSKLQQGVA ECPGLRLTRSASFSA
4111	12162	A	5040	1	114 ARAEMLIVQYILPRLTHCAIFTILFIFSLT *VMLSS
4112	12163	A	5041	335	477 TPASLKIPEV*NTLAKMVSIS*PRDLP AASQSAGITGVSHARAC
4113	12164	A	5042	135	804 GDTITLQNQ*SLKTRQ*FLIIIF/IFFFL RWSLALSPRPDCGLQRDGLSLQAPLPG FTPFCSLSPSSWDYRCPPPRPRANFFCNFF FSRDGGFTVLRMVSIS*PQ/CDPTLAS QRAGITGLSHICTRLFF*WMESPSTVQ GQWHDLGSLQMPMPOFR*FSWLSLPSQ DYRCMPPCQANFCIFCSRDEVSPC*PGWS GSPDLVIHLPWPPKVLGLHA
4114	12165	A	5043	63	361
4115	12166	A	5044	151	384
4116	12167	B	5045	385	479 MAGAFRRRFASEVRAQGLESLHEGLRC AGSLRGQGSPLPTMWSVVKVGF*
4117	12168	A	5046	3	698 VFffffSGCTRGFLFESDFHRAPIHRCGG IAAP*AAAGAQPQPRAPGETRGPEPAPHW SASGDKPPGQAA/PAALVPGEQPSWDSD PRGHRCSSQATLPRVLAQPLQP*L*LSL* DPPELRSL*PPL*RLL* *SLEPP*PPLLDS NRFPP*PRSPPLLENPRPRPRPRKPRPP AEPYRPTESVSDLPWAWSSTRISVHLQTS HSWPSWASLASSMF*KVTKPNRELWSS
4118	12169	A	5047	138	550 FCCFTSSEHSILAYGSCSPRRTEVLCACQ QNPSETQAAPLASVYMWK*PCNSRLKGP GPFLGEWGPESRMTSG*TVPGCTSPGT RAGGS/PCPGGLSPEALRQ*GAGSGPRV S PGAP/GCGAPAAYGAAASPQRCGAL

4119	12170	A	5048	2	555	FFFFFFFFFFGAHVALYSNPTFTGLHIVVGKD WPPP*AAAGAPQPRAPGETRGPEPAHWRS SASGDKPGASGCLQQLFOGEVPPGDS*P QRSSALRPPFRVLGPGFPQVAKAKQR YSQRPPQGSOLAP/GPPRKQPOPLRKVS G*SGGCDLRLRHPACPGRVCTLAQLEP ATRMGSWSVYQQCGL
4120	12171	A	5049	1246	1379	RCLFLISFTGRRTHTP*PPLPGLRTGFP** PRSPPPSRPTEPTGP/RPRPPEESPGPRQ*PP RVPHIGILSDDDLPAWSYSGS/GRPSTGLPI /PWPWSH*P*RROCSQR*OTQIPEISGSPCL SOPPLQRSVRTLRRPAPATA/PLVSKLSPP TKSPLSSDAM/RPLSRAGP*RKQEDSAPQ DPEPPRNRPGPQ
4121	12172	A	505	1	1140	
4122	12173	A	5050	207	251	
4123	12174	A	5051	335	419	TFDFPNWRSYFSMSNWITSLPTLSSWD YRHVPLYPAKICIPSRDRVLPYWP*SHD FTLFVSMTILTLQIYKMTKLDNYLETIYY
4124	12175	A	5052	68	399	WELLIYFSGHTCSNLSPLLSSLSFFFFF*DS LAWSAPGVQWHDLCISARLPLPPRFKRFW CSSLSSGWDVYRHVP/QYPAKICIFSRDRV LPIAKASRNVSFLTLNMLGGFS
4125	12176	A	5053	2	322	AFFFFFF*DGACSVTRLECSGITAHCN FRHLGSNSNPASTSRVVEITGTCHH*T* VFLVETGFHHVHGQAGLELLT*VHPPQS TKVGLGOVVSHTCPLSDF
4126	12177	A	5054	16	357	TITIGQNNFFFFLEMGSCSVAIRLECSGIS AHCNKLGGSSNLPTSTS*VAGITGVCA TIPSFYNYKISM*NQSLPMLPSLGLLELLG LRPVFLPFRPKVLGITRHEPPHSALK
4127	12178	A	5055	2	346	LRWSDL/DSVAQGGVQWHDFGSLQPPPG FKRLSGLSLMSSWDYRPPPLRLNHLF *RSKFTMLARMLVIL*PHDPPASASQSA GITGVSDHAQSQJFLKLQMTKSMGFKTK FLN
4128	12179	A	5056	3	401	FFFWRQSLTLVTQAGVQ*LDHGSLOPPL PGPKGFSHLSPSSWDHKHAPPHLANFF L*RHGFTM/RLVLTSLSQ/CDPPAAASQS AGITGVSHACQPVIFCKLDFSTDIFTPS NLOPRGFWDLTAQGEIVST
4129	12180	A	5057	142	250	PTGSSLTPPLWDQFASLFGNTL*WERE *PLPQNV
4130	12181	A	5058	2	775	RCNSAQQMUTSSQKALMLEKSLQEEP VEGFRITLVDESDLYNWEVAIFGPNTLY EGGYFKAHKFPIDYPPSPPTFRFLTKM WHPNIYEEWEMYGISILHPPV/DQPSGE LPSERWNPTQZCQEGLLRLC*SHWLNEP QHLSPOPMDSAVMFRLKWERO*REKTK EYGLKFIRETKFSAT/GPKAGKGWVG SPTNPFGREYCICTEVPRNDEQVQSLLYD ELGMMTIDDER*GRRKDA/DICYDDDEF WGMRKP
4131	12182	A	5059	1	571	ALKGAGYID/KVVTAMGIVAFVFFRSGK YNLDFRSRNDP/ARH/TPEOLVALYKSF REKH*VFPD*GLVQRTLFLSVFLVCLKN/ SFDCDDREVWKKFTANACLQEAGNDLT VNLRHIAEAVDENSCNFIQLTVD*VACK LIQSNW*GIMVSHYSLT*NTFIAILVKHCT G*INTGAPC*SEPLARYKELSF
4132	12183	A	506	1	2640	
4133	12184	A	5060	32	534	GRERPLLSPYMETLYRVPFLVLECPNLK LKKPPWLHMPSAMTVYALVVVSYFL GGIYIIVIVEPPSVGSMTDHEHGHQRPVAF LGLQSKMDNNNINGKGLCQAS*FTMGGF RFS*ILDPIEECTKYPKTSRUDSFFCSIGISSV VLEFFPWARSNSMRNGNCPLI

4134	12185	A	5061	1	328	FLKRQRFGGLVAQAGL*WHNLGSLQPLP GKF*FSCLSLSSWDYRHLPPHPPNLLF LVEFGYHFGQAGLKLTDISGDPPLAS QSAGHGVSHRAGPLCITFSNH
4135	12186	A	5062	2	687	GRVGFNVRWDRNDTNLIPNGSSITVNQT NKRDYVSKYINYIFNDSVKAVYEEFRRG FYKMCDEDIJKLFHPEELKDVMLGNTD YDWENIEKNARYEPGVNSHPTIVMFW KAFHKLTLEEKKKFLVFLTGIDRLQMK DLNNMKITFCCPESWNERDPIRALTC/YP VSLLPSPKYSYNGNS*KKRFPKPINNNR GIWLTSLPCPNSLILLLSSLLLLLFLY FVL
4136	12187	A	5063	1	525	ISHDAIAQESKRYWQNLEANVPGAQVLG NQIMPGLNMKIKFVCRPQCEPKRSKSE PDKNRKYCSAKARHSWTKDRAMRV MSY*RKKWMNIRPLPTKKQMPQLFDLC NHAISGKCKQYVGNCNSFAHSPEEREVWT YMKENGQDMEQFYELWLKSQKNEKSE DIASQSNKEN
4137	12188	A	5064	735	1517	SYSYFIQLCNHIAISGKKCQYVGNCFA HSPEEREVWTYMKENGIQDMEQFYELW AQESKK*KK*RHRRPVSPNKGKWHENQIH MANRIMAGRLOQWDFSLAGMCGGKTGN SEKQWQGHISSEKHKEEKVPHTEVTDQYC WQHREPTGYFSICDRYMGH/AAQEGLNS CKLHMGNARTPMEWGRKGRRLPLK EASTKHRKDHLIGPKUDNFGKYSFLK DLN*YAGFYGMIPNQSIDQKNLKCESE SRGAARFPACIGVYRSS
4138	12189	A	5065	237	381	LHQPPTTQTLAFTSNLRLGR*RSAALPDAL DSSKVSEMRHFLKRRGVN
4139	12190	A	5066	1	876	
4140	12191	A	5067	1	78	
4141	12192	A	5068	155	417	
4142	12193	B	5069	40	411	MQVITGVRTDSGALNITHKLASSPHSKPF PIFQATFIFSDHIRCIIAEQLAKGRIPGKA HEDAENSCPPWTSQSSPLKSWGLDSAP PPLSTLCLSASTTRGAGAAAATPQCSAPCL HRWTRCO*
4143	12194	A	507	1	714	
4144	12195	A	5070	1	987	
4145	12196	A	5071	111	2187	DERRVGAADMFGRSRSWVGHHGKTS RNHISLDLHKLYLHVLTKNNTVTEQNRN LLVETIRSTEILJWGDQNDSSVDFFLK NMVFVFLNLRQKSGRYCVQVLLQTLNI LFENISHETSLYYLLSNNYVNIIVHKDF SDEEIMAYYISFLKTLISLKLNNNHTVHFY NEHTNDPALYTEAIKFNFNHPESMVRAV RTTINLVYKVVDNQAMHLHYIRDKTAVPYF SNLWVFIGSHVIELDDCVQTDDEHRNRG KLSDLVAFHLDHLHYLNDLNIINCEFLND VLTDDHLLNRFLPLVYVYSLNQDKVFLII HHAPLVSIAEVLNLNGDLSMELYAKTEQD IQSSVLPITLSSWLQGSGLSLSNQLOSGLH KCSSHLGCAQAAADSVTGEIPPAIRSLEW LISAGSKARTFFFLKMLIGFWEKVDCEY QRQVLVSLRLQEALESNRLTDVAVHSS CMLGFGSTAPRGSWIGDPAAVHPLPGE LAEHLGSKGITTVTKHQPQAKPSIRCFIK PTETLERSLEMNKHKGKRRVQKRPNYK NVGEEEDDEEKGPTEADAQEDAEKAKGTE GGSKGIKTSGESEEEIMVIMERSKLSLSEA ASTSVQEQNNTTDEEKSAAATCSESTOWS RPFIDMVYHALDSPDDYHALFVLCLL YAMSHNK/GKSPEKEEGLSGTQSHPGKA GTFKGEGAEERKRAQV

4146	12197	A	5072	2	2774	RNLLEVTIRSIITEILIWGDQNDSVFDFFL EKNMFVFFNLRLRQKSGRYVCVQLLQLT NILNFENISHETSLYYLLSNNYVNSIUVHKF DFSDDEEIMAYYISFLKTLSLKLNNHTVHF FYNEHTNDIFALYTEAIKFPNHPESMVRIA VRTITLNVYKVSLDNQAMLHYIRDKTA PYFSNLVWFIGSHVLEDDCVQTDEEHR NRGKLSDLVAHLDLHLYLNDLJINCEF LNDVLTDHLLNRLFLPLVYVYSLN
4147	12198	A	5073	2	1802	
4148	12199	A	5074	546	802	GQAGRARQVRSPVSSALITLPLA*QKH GJSRWVWIGDENYGEBS*SREHAALEPR HLLGRAITKSFARIHGELESVPRPSSSH
4149	12200	A	5075	3	2380	SLSVHKM4PYSLLVTRLQKALGVROYH VASVLCQRKAVAMTHFPENEYIHDLLE KNINIVRKRLNRPLTILSEKIVVGHLDPPA SQEIERGKSYLRLRPRDRVAMQDATAQM AMLOFISSGLSKVAVPSTIHCDFHJEAQV GDEKDRLRAKDIQNQEYVNFPLATAGDKY GVGFWSPGSIIHQAILENEYAPGVLLIGT DSHTPNSGGLLGGICIGVGGADAADVDMA GIPWELKCPKVIGVKLTGSLSGWTSPLKD VILKAGILTVKGGTGAIVEYHGPQVDS MSCTGMATICNMGAEIGATTSVFPYNNHR MKYKLSKTGREDIAANLADEFKDHLVVPD GCHYDQDILIEINLSLKPAPHNGPFTPDLAH PVAEVGKVAEKEGVPLDIRVGLIGSCTN SSYEDMGRSAAVAKQALAHGLKCKSQC TITPGSEQRATIERDGYRQIRDLGGIVL ANACGPCIQOWDRKDIKKEGKNTIVTSY NRNFTGRNDANPETHAFVTSPEIVTALAJ AGTLKFNPETNYLTGTDGKFRLEAPDA DELPLKGEFDPGQDFTYQHPPKDSQOHVVD VSITTSQRQLLEPFDKWDGKDLEDLQILI KVKGKCTTDHISAAGPWLKFRGHLNDNIS NNLLIGAINIENGKANSVGNAVTQEFGP VPDTARYYKKHGIRWVWIGDENYGEBS SREHAALEPRHLGGRANJTKSFARDPRD EPGRKQGILLPFGPFAIDPADYNYKHPVV KLTIOGLKDFTPG/RSPPLKCIKHPNGTVQ ETILLNHTFNETQIEWFRAGSALQQK*RN LQQ
4150	12201	A	5076	3	203	
4151	12202	A	5077	52	393	EASAWPAPRGWSWMVVAEDPACSVTLC ESLSGYLPGGSGQGPSPAAGTSPSLPPLRS LPGLEKLRSPSGRESRLSSAPRAPSISAK AQLCQCAEEEDPEIVNNV*FSSVTCLSL
4152	12203	C	5078	121	396	MALPGRPLPHRKLAGGTLEAPWPGLPSGA VRRHQPPPTLXXWLKGVKVKKPLRKIE AKFLCAEGPEHIRQGSAAVPGGGGRSRN CEOCLI**
4153	12204	A	5079	3	755	FVDFDRPHETRVLQVSCGRAHSVLTD REGVFSMGNNSYGCGRKVVENEYSES HTVHRMHDFDQVQDVACGGQDHSFLFT DKGWVYSCGWGADGQGTGLGHYNTSSP TKLGGDLAGVNIVQVATYGDCLLAVSA DGWDFGWGNLEYLQLA/APVTDSTQVN VPRCLHIFSGVGKVRQ/CLHAVARAVQC* TGEVHVFVWGVYGLGK/GPNLGSKCPNL KMPITLFGDFQPRNPGPFAFRCGIQA TLI.H
4154	12205	B	508	1	546	MKQPNRKRKLNMDSKERLDQDGRVLK MSFFFVFCVVSSEESSEHEETQDLMCSELF WVLLHMWSLDQHQHJHLEDHNNSPAR GQHWMESENDELTEVGFRRWVITNSSEL KEHALTQCKEAKNLKRLDKLLTRISLE KINELMELKSTARELREAYTSINSQIDQ VEKGYQLRKINLMLK*

4155	12206	A	5082	7	279	GOVCLIAETGVQWVHLLSLOPLPPGFKRF LICSASRRAPPANF*FLVEMOFHHVG QAGLQLLTLDGDPPTSASQSAGITGVSHH ALPAWL
4156	12207	A	5083	5164	5586	FTAALNSWV1KLSSCSFLSSWDYCMYMP CPASFFFFFLR*SFALVAQAGVQWCIDL GSLPPPSGFERFSCLGLPSSWDYRPP/P TPG*FFFFVFLVEMGFHYVGQAGLELLT SSDPLTSASQSAGITGVSHHAL-PSLYK
4157	12208	A	5084	2	5438	
4158	12209	A	5085	1	4294	WAVFDGNYYYYYLPWAHTKPVVLTTSY WEDISHRLLDAVNALLAMAERLQTNIEAL KSGQKIPANQLAELWLKLIDEVIEDTR YTLPTEGKANVTLDTQIRKLRSRLSLSQ IHEAAVRMRSEATDVKSTLAEEDWLKD LMLQTEEPQNSMPDIIWMRGEKRLAY ARIPAJQVLYSTSGENASGKYCGKTQTI FLKYPQEKNNGPKVPELRLVNIWGLLSA VEKKFNSFAEGTFTVFAEMYENQALMF GKWG
4159	12210	A	5086	444	797	FHSLSPGASKPMLEPGLDWEPCKKLNNDV KRAKSVPTRHLH*VYLLMLSLSPPPPTQ QAPVYDVPDVPSKCSHCQFPLWF*FAFL* WPVMMSVFSCVCWLHCKLLRSVCYP LPTF
4160	12211	A	5087	489	611	SPCPCLCPEWYCLGFLLGFLWFLV*HLSL *SILNYFLYKV
4161	12212	A	5088	1	336	
4162	12213	A	5089	1	1581	
4163	12214	A	509	1	732	
4164	12215	A	5090	235	583	
4165	12216	A	5091	1	430	MGKDFMTKTPKAMATKAKIDKWDV1KL KSFCATAKETIRVNRQPTEWKFFATYSS DKGLISRIHKELTOQVKKKTNPNPKWAK DMNRHFSKEDIYAAKHMKECPSSLAIK EMQIKTTMRVHLMFVRMAIIKSGKNR WELNNENTWTQEGEHTLGPVVGWGK GGKGALGDTPNVNDELMASFSTRPTFFP RSDPTTTRPMAVPVPHEEKDDHLETHRPL RPTLPHAPDGRWLLTLTHSTPQGKT GLRTYRCPCLSRTEVOTAGARSHPHSS AAFTTWAKGPTGRGPGRHMRSESATQKE VTMSPCTALRGQKADSKAHQOQGTWA ARGMHTESTGTCKASRGPSPSLSPRTRPK VFV/AERKGLRGFVLSLTLPSFCIQCQKHW QTVPMSPLVEDVSE*TGNLQNQGRNLFQP THLTKG*YPESTKNSHKTFRKKQZTTPSKS GQR*TDTSQKKTFMQPTNTWKNAIIHH WPSKCKKSQPK*DTT*CQLEWQSLKSQE KTGN
4166	12217	A	5092	65	163	LEASKFLVP1GPSV*CSPPCVHVFSLFNS HL
4167	12218	A	5093	175	495	PQFFGNVLGHILLYSFLGPFOCDENIRYLS *CSPSSCPPCTNRPQYVMFPLCPCVLMV QLPPMSENMWCLVFCSCDSLRLMMVSS FIHVPYRCYCNLVVYFEVVRCH
4168	12219	A	5094	67	351	LHTRKSVFNCVKLFLHICISSVLLNOLYDR PWCYMFPTLCPSVFIVQFPPMSENMWCL VFCPCDTLRLMMVSSFIHVPPEERHKSKH HDTRG*CSNM
4169	12220	A	5095	2	431	QVFGSIVRIHOGEWFPPLLYGILLPRVQNC LTN*LDLWSQHOTPHVVLTHRWEWNNE NTWTQEGEHTLGPVVGWGEGGGIALG DIPVNNDKLMGAAHQHDPLVSPKITGIV LSISQVRVPFIDRRKARYSADLTSFLIAI PG
4170	12221	A	5096	75	173	

4171	12222	A	5097	1	2349	MLEDRDGEEDEGDEDRLDN AVRGPCKPK GPVGTVSEASQLARRLTIVKVNRSRMLSN KPODFQVATAWRSASLFLNLYIAHLLAIA VMFWQWTYSNGQWLNRNPLALNDFIPTAAL GLYNPITVPLGMLTGGSTQLVAPGIAQS CPGLVLVLAIIIGEANEATPEPDKDPCTCWER LGNHPPSVLQIRVRVIEGRLQSLGNIRPV VKVHVCCQTHTRTRKRGNNNPFDEVLW LQPGDHTPASYSRAGLNDYHNCCKNKM QGVVLTHKWELNNEWTWTQDGEHLL GPVVGWLWPCQLTDPEGFGEETWASTQDF AGVTCKALYLLHFTTAIGSHCLDHCF DFLGIKNYRKFKVGRLDLGICRRPGEGR LGKHLRNVLGDDAEALIGTATVALKD LTGDQSRLSPYKLISLLNEKGQDTGIYNC ELENVAEEFGLTDFSDTFLYRGKSDEN EDPSVVGEGFKGLQMLWVDFVFPKSLQPP GPPFNUITPRKAKKYLLRVIWNTKDVILA EKSITGEEMSDIVVKGWIPGNEENKQKT DVHYRSLDGEGNFNWRFVFPFDYLPWA QLCIVAKKEHFWSIDQTEFRIPRPLIWIQW DNDKFLSLDDYLGFRNNTLRRHTHFLQ KSPGNGC/RGLDMISGTFKAMNPLKART AFLQEOKFMN*WWPCVAAEKDGARVMA GKVEMLTEILNEKEADERPAGKGRDEPN MNPKLQLPNRPTESFLWFTNPCKTMK&F IVWRGEWWVIIQFLLILLFLFVGRAPLT LLPNYFVQWKIVKPNVLTGKGFISRKVIQ Q
4172	12223	A	5098	1	296	RRSAPSTSLRTTCVSSCCWPRRRAPSMTP GAGYPSGSAAAGP/PTHSP*PPWTRPS/SAQ RYLRK*QOPQGPALPLLPAPPKAWLS GLGPVVLDSGPQ
4173	12224	A	5099	26	253	RWLSPWPL/SCPQPGWTARNPQPTRELLP HPOAGKPFPLPVVPVFPQTSPSLLPVMGGL SRPGSFSPVSVASLRCCTH
4174	12225	A	51	702	1107	LQERYSDPGILLASFHGESSQDRDLTIVQQ EK*NAGSASPPGPPHPTCQPRDRGRT RLPCHRMWGTPGIRWKMPQL*AAGP*PH AA*WPGSLMPCL*PSASAWTRQQ**PG SLPLTSPG*DPGAHIILLWRKQSY
4175	12226	A	510	2	1601	
4176	12227	A	5100	274	2462	RRSAPSTSLRTCVSSCCWPRRRAPSMTP GAGYPSGSAAAHHRCDGWTATHSP*PP WTRPSRWSAYLRK*QOPQGPQTHCCPLP SOPPAKGVAVRAGPCASGLSRATI:GTGQ G/P/G/TSPGHTWGQQRHYHEATFWG*LLD CLVFKSEKPR*LILLLITMP*STSVSLTML SLD*ARGRREPAHPTGPSPAAATN*PGAL LPTVQIS*KCSSQAPERASPPPCSPR/PPA TASFRPLSLDPQPS/APSFGKPSPHLKPNS NIFIFLYQOLLSHL*VAQSMATCPQPGW TARNPQPTRELPPHPOQAGKPLLPPVFPFQ PTSPSLLPVVMGGLSRPGSSLPSQWLL*G AVIHAR*PVPSILPRGETLWTWPSAKGPM GWAAGLAASGCLHSSR*PLVFRGW EHPVPLPHNRCGDSGPGR*QGSSMVR DSGEL*GLGDPGLPGEFNKPCCPF*AEIL KWNARLARNAVLTQNAPSPCPYWTWP CLMPKDPYPEAYPPYVYLREAECPLQAOV MGPEAPPAWPCSPVG/SVTVF/TSVSRSP PPKLT/THCE*PWAS/SPNLV.PQFPHLEK MGPLASSRAAHAPFS/SPH/PALGRLM PLPQWALWEPTGSPALTPEASEACVMS QLSSR*GPRVLCWWGWGMPSFLYLFH KSPAGAEMOSGLGLPSP*VLL*GPEACGP GPVAAEPPSQEVKLVPSPGLPVRGLSPSF OSNSRGLQSPVQRTGPFPKVKPCV

4177	12228	A	5101	1	545	DFFPROSS*NLNITGKCGGISP/GTPLNAVA/HF VPGOY/DVTTKTMCGFOGVMKRWG LKAOPATHGQSKSTGRPGAVATGDIGR VWPGTGKMPGKWNRYRQEYGLKVRW NTKPPINYVKWSGP*KWL*RSKDFK LPAFKDLGKNLPIPYIFLEGDEGGTAQ KIGMDEKRVSSPGAPSN
4178	12229	A	5102	2	202	LFGYLPK*VDNMSTKKPCTWFTLALCIT ARTWKQPCRPLVGKWI/QLCC1*KMKY SDFKKSCQAMK
4179	12230	A	5103	1	422	FFFFFLRWSPFTLV*A*VQWRDLNSLQPP PPRKPRFSCSLPSSWDYRRASPCSANFL DF/HF/VE/TFRHVHCQAGLELLMSGDL ASASQSAHIGVSHCARPLASFLFLHFNK CISGVRLCSRWPWSAAOKSLD/LAY
4180	12231	A	5104	2	375	DGSCFVQAQTGVQWHINLGSLOPLPFRK* FSCSLSPSSWDLRQV/PPPHPANF/FLV*P GPHDVQGAGLELLTSGDPFTLATRSVGIT GVSHCARPGSIYKQRLDKLRLRSSVAART NRCPLWSLPI
4181	12232	A	5105	1	293	RRLEFSFLRQSLVLVJQAGVQWGDGLGSL RPLPLAGFKRFSCLSLPSG*DYRHGPPRLA NPWFTREGM/FAMLIARLVSNS*PQGDPP ASASQSSGDYRA
4182	12233	A	5106	3	305	ETETCSVAQAGVOWPILSSLQPLPPLKR FSCSLLSNWDYRCLP/PHAAFP*FLVET GFPHVGSQSLKLLTSGDLPTGSQSAGIT GVSHCTWAGKSYIF
4183	12234	A	5107	1	485	ARRDAAEFLVSDPSGRMVFKFLQRILN SHCFAREKEGDKPSATHASRTMPLLSLH SRGSSSE/SDDRLNVTEELTSNDKTRIL NVQSRLLTDAKRINWRTVLSGGSLYIEIPG GALPEGSKDSFAVLFEEAQLRADHVPI CFHKNREDRAALLRTFSL
4184	12235	A	5108	1	506	FGVSYLHDYNMRTNPGEENSESTVPTH PADKGWPQPGDAQRGGPTPLPKTLS RTCRPMKQASGLLGTGCGPGTISKPKK LKVRSKAAAGEKPSEPLTRTPRPHPPP QGDRACGLRMKGRRRPHAYCRRYGS PTSVLAVLVEANEDMVGSQLLSELOEN WOAVLAPLQRAARDLVEAATQHCS PNWRTVLSGGSLYIEIPGGALPEGSKDS LPVLLFAEQLRADHVPICFHNREDR GR*PVSPA/VCVGVGPAPPLHSQAGTVS LRGWVGRAGGSGRQOF*RLLPVRAALLR TFSFLGFEIVRPGHPLVPKRPDACPMA TFERSSGEEE
4185	12236	A	5109	1	996	MVKSSLQRILNSHCFAREKEGDKPSATIH ASRTMPLLSLHSRGSSSESESVMARD APEAAAH/CRJIPG/SPRGPPGS/WWR ITPATRORPGKTPAASREDASRFRGRGCQ LRLWGS/HAGSRSSFPDCVPRGRRSAP DREDDRLNVNRGN*RSNRNQDGGFFNVQ SRLTEAQ/TALNWRNNC*SGGSLFNPKPA GRRWRPEGSKGQQLQFLLEFA/EKQLR ADHVFICSHKNRF/DRSCLAPKLSAFLG LKLURPGHPLVPKETPDACFMALQSRRE SLPGEEEEVGARLRGWAIPPPWWGHFV RVGRNRRLAHLAWVCPHVVIQINAHS Q
4186	12237	A	511	1374	2220	QAENSHINNKKDVHSETPSEGHQKR KDHSSSPAREQNWMENIEFDELTEVGR RWVITNSSEKKHVLTQCKEAKNLKRL GELLTRITSLEKNINDLMELKNTARELHE AYTSINSWINQAEERLSEIEIQLNHEIKRE DKITEKMKMNSTTIVL/VSTWGSQLEQNNLP HISPLFHSTHDLNISFYGGCLLQACSSKL LQGLAEGGPRLRTSASFFAAKCLCTKH FLPTEMILIKSRKTTIPDQPRRLVLYLOGV

					VDQTSRKGPTALNIRQKTFAAAPPHR
4187	12238	A	5110	1	125 FFFEMESHSVIRLECSGVNSAYCNL/TLP GSSGSPASAPPPQVGTTGTHHHAQQLIFV FLVETGFHHVGQDGDLNL/NLVRPPPPP KVLG*QAVLVPQHRRPK
4188	12239	A	5111	2	280 FFFGDRDVRPLHSAAQAGVKWCNLGSLQ PPAP/GLKPFSCSLSLPSS*DYRSLPPCPTHF CIFSRDEVSPPSWPGWSPTPDLMNHPPRPP KVLIQV
4189	12240	A	5112	2	291 FLEMESHISVAQAGVQWRDLGSLQPPP GFKRFSCLSFPSSWDYRPPQRPRPA/NFFV FLVETGFTILARLVSN*PRDPPASASQS AGITGVTYRARF
4190	12241	A	5113	3	690 FFFFFLROSILSDVTQAEQW/RRILGSLR P/LQPLGLK*CCCLSLSS*DYSYNPLPRL ANFF/VCFIF**RRGFTMLARLRLNS*PCD LPTSAQSAGITGVSH/HAPGLASPSLNN KVQSSVGAQRRHDEDSRA*VFCCFFF FKRQFLVA*AGVOWRDLSSLQFLPLRPF *FSCSLPSS*DHRCPVPHANFFVFI*RD. GVSPCQPG*SRSPDLAIRPPRPPKVGLQ.A
4191	12242	A	5114	3	282 FFFFEETEHSIILSPRLECNGTISAHCNRL. PGRDCPASAS*VAGITGVCHIHAWLIFVF LVEΤGFHHVGQAGLELL/NLVIRLPOPPL VLGQ.A
4192	12243	A	5115	3	198 LSLNWCHLYIYIYIYV/CVVLFCHSCLS NMGT*FFLAGLLFRICLCLFIFYFLL***L LFMI
4193	12244	A	5116	1	854 MNKLFSLLLGEKVDTQPNVLHNDPBARH SDDNGQNHLLEGQMFNNAQDSQFKDENT DIAEKLEEKVRILCWVMTGPQUNLEKKA KHVKATWAQRCNKVLFMSSEENKDFPA VGLIKTEGRDQLYWTKTAKAFYVHEHY L*DADWFLKADDTDTYVILDNLWRLLSK YDPEEPYFGRRFKPYVQKGYMSGGAG YVLTREPLKRFVDALKTVKCTHSISED LALGRCMEMINVEAAGDSRD1IGKGNFHH PFVPEHIFNLKGYLPRTFWYWNYNYY PPVEGPGLL
4194	12245	A	5117	13	290 ECRRQRGVQ*CNHS*QQL*PPGLMQSSL LSSPGSDYRQVLLHSAEF*VFNLEM SYVYVQAGLKFLASSDPPALTSQWARIT GMSHITRA
4195	12246	A	5118	1	595 MGIIHVGQASLELLTSGDLPASASQGRG VRLYYNEGRSSQASAVTALFLSSLPIVTS AMAGTRPPSARSHQTLQACRAQKTKTR MSS*GTGAKHQASSPGKAPLSTPSPYFW KPSLQLTSPCSGSRSIWLWASLPSPLAALFLC FWQDAD*RSSTTRSSLPWSWPSRSTRALRL STS*PECAPSA*ASSKAGERSTGDLR
4196	12247	A	5119	3	496 FFLRCSV/NSTAKAGVQCHNLLSLHPLP PGFKQFPFCFSLPSS*DYGCAPIPHANFVYIP SRISSQAWWRVPVIPATQEAEQSFNFVAQ VGVQWHNLLSSPQAFPAGFK*FSCLSLPTS WDYRHMPPCPDNFCIFSRGGVSPYWPS WSRILDIMIHIPRPPNVGLQA

4197	12248	B	512	1	765	MLAGQQRQREFPVGVGSADPAGLAQAOWP QRQCQARDLQLAMPEPPIPSMSGCAAGA SPTSTAPCSKAPSFDHPRAAECRRRARD WQAAAPPAPVDRDPLGEASRAPESVKD CIYDIMFDGGAGRFAAATLGTISELPAFF EEKRWSWPKQRQAPGALV*
4198	12249	A	5120	3	329	ETVSHSVAQAGVHWHHVGQQPPSPGS KQFSNLSPGGWDYRHPHPPHANFILFLV ETGSHYVAADLQLLASSNDPPTSASQHA GIIGRSHTCRPRIY*WSNKL*YKIT
4199	12250	A	5121	1	537	ERQSCSVVARAGVOWHDLGSPQ/LPRL KRFSCILNLSSWDYRRALPHG*FLY* *ROQFTMLVRL/VLNS*PCDPPTSASQSA GITGVSHRARPVLNF*QNYYYTFETGSGS AAQAGMQWPIPMAMOPQPPLRKQASNL SLLSSWDHIGMQHPHANTTVCKTERKQV FRMHILLNNTNYREQ
4200	12251	A	5122	1	197	EAGSHSVAHAGEQWCDYGSQHQWPV LKOFSHLSPSS*DYRCVPPCPANFLIILM ISVSIROSV
4201	12252	A	5123	809	1472	KTLLSCYSLSLWPVDYLRSRSLRRAA SSFGSWRFALQRTPIHTRRRLRSKAVQ TAPFRRSPSSRHRCCSSSRATTTCRMSFL SSLTCAQOLAGWVTLKRSIGLKRKRSMS LMLAKKWPCLMWKKRRLSPRYPOPQRT RGKRSRGSKIMIRRLUNGQMPRTVPA MKEVQI/TKLKKSKRSRCSCHSSKVCDS KS/VQEAGP*VGGQQPPPRG*SYAWC
4202	12253	A	5124	1	504	DSEPCSVAOAGEO*RDLSGLQPLSLGLK QFSCCLCPSSRSDYRPPPCLANFCYF*YR WGFTISARPV*NWSWCDPPTTSASQAGT TGVSHQARLRLFFKAFKVVWSQGDSI*CVN EFNIKSISSPSPSHFTSTPQSCPIMHSQIKY K*DYP*CSKQAGQISIDTY
4203	12254	A	5125	2	351	KQGIGMITYLRRPPFFSRWSL/DVSQAG VQWRVFGSLQAPPGLFPLFCTG/ROPPS PANFLYFLVETGLF**RQGFTVLDRMV SIS*PRDPPALASQSAGITGVSPRTRQEGH S
4204	12255	A	5126	1	1047	MWSISWPRDLPASASQSGAGITGLIGALVL SVGIYAEVER/HEI*N*KCLPGSSHPIHP PGRRHVHGLLHWCAVGPP*OPPELLAASL RLSRGYGLVLSWLEPRYKEMSIGMYLG EIVRNLIIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRALLQVRAILQLQGLJNS TCDDSLVKTVCVGVSRRRAAQLCAGAM AAVDKIRENRGLDRNLNVTVGWDGTLY KLIJPHFSRIMHOTVKELSPKCNVSFLSE DGSGKGAALITAAGVWLRLTEASS
4205	12256	A	5127	116	498	YNFALKSELKFKNQAIWSLNKQFFFFFLR WSLRVAQAGVQWRDLSGLQPPPGLT PSSCLSLPSSWNRNRRPPCPAKSFWIF/* RRGFTVLARMSIS*PRDLPASASQSGAGI TVGSHTRTOEGHS
4206	12257	A	5128	3	490	GIYHTLRTGQEGRGSIKQKQRLLQPLPYF FLFIFPSFLYMIIEKH*LSFYILLFAFNIVS* PFSYIFFR/P*DVSLLCQPGWSTVA*'S*L TAATSTSQDGDSPTSGPLKVTDRCVGHH T*ANFYIFCGGWGGLTILLRIPNSWAQG IFPPWPVKVGLQA
4207	12258	A	5129	423	495	
4208	12259	A	513	594	1300	LGASEPWQPRSQETPKHSWPSPH/PANQ KEVPEPNPYALKTCLVGHTEAVSSVKS PN/CENGLASSAADDRIJIIWGAIDGKYEK TLVGHNLEISDVAWSSDSRSLVSAASDK TLKLWDVVRSGKCLKTLLKGHSNYVFC FNPPSNLIISGSFDETVKIWEVKTGKCL TLSAHSDPVSAVFNCNSGSLVSGSYDGL CPWVNAASCVYK-ETLZDTSNDDU/SPV/E

					CRIWDAASGQCLKTIVDDDNPPVSFVKF SPNGKYILTAT
4209	12260	C	5130	628	849 MCGSVYSTIWSLIASRREETIRVIVLYIQS PNINTRHISKRGLNKGVNQFHKEDWNLL KRCVSHSGAEAGIFS*
4210	12261	A	5131	350	412 NFEKLSPYQOKKSIWVGAAQVMPVAVG KPSSEWPPGSHMDNSQRGNPVCGK*FS CPSLQCSWDYRCMTPCLANI.FFFKLEGG FCHVQAQTSKLGLGSSPPFILASRSTGTG MNHHWAQQLIN*SIRE*HSITHRLTHSRE KSECNCNLYGKTLSSNFPTTKKVSTGELP R
4211	12262	A	5132	3	189 HERKAQPAGEGRTHMTKSDSLPSFRVST LPLSHHDPNTMGASHDRDLASGTAT VRDTRGIDPAPVHASPTRRNNEGRHVF KRPDTDLTDSISIYTDDHSLQIRTLRALS QLTTPTQTIPWAGPATGTLSRGGLPPYG TPEG
4212	12263	A	5133	32	800 FKTIVKVRFLCIRVYSLCCKLLTYCDHFH SLFEECAHKLLKMEFPEQSQTKELCNM LDCCAQQRTYEKKFGGLAGRFCLMKE YMESEFEGIPKEQYDTHRLETNKLRNA KMFIAHLLYTDSLPWSVLECIKLSEETTS SSRUFVKIFFOELCEYMGLF*SLIARLK GNLAPFF*RFPRDDPRITRVAISFPPSIA SCLTYCPVSALSSPLRPLVVALLPIP HHDLLELFLPFPYNDTLVLPFV
4213	12264	A	5134	2	706 RCNSAQQOMTSSQKALMLELKLSQEEP VEGFRITLVDESDLYNWEVAIFGPNTLY EGGYFKAHFKFIDYPPSPY/TFRFLTKM WHPIYENGDVCSILHPRVVDDPQSGEL PSERWNFTQQCEGLLRC*SHWLNEPQ HLSQPQMSDASVMPRKWUDSKGKDK YGLKFIREDKFSATKARRQEKGGS*RF TTLGGNTCIKEVPRNDEQVQSSLVYDEL GMMTDDER*GRKKDADCYDDDDSG E*QSPOPWAGIPASKLRCPCNDEQVQSL LYDELGMMTDDER
4214	12265	A	5135	7	219 EGV*VSRDW*QWS/DIGSWRHSMTGSGD SLASAS*VSGGTGESHHKQLIAVNVMVEM GSIHAGQAGNELSTL
4215	12266	A	5136	2	309 DGSLLLSSPRLQWHNLQQLQPPP*FKGF SCLSLPGSWDYRHV/PVCLANFVFLVETG FRIHVQQTGLELLTSDGPPASASQRAGIT GVSHRTWQKMYFLSQKYF
4216	12267	A	5137	1	309 SCLSLSSWDHRRVPAHFVFLVETG FHVHSQV/GLELLTSSNPASASHSAGIT GVNHIRRAWLPGLNLRF*KMIIRRLRLLK NKFHSTILRKSETNSCE
4217	12268	A	5138	2	625 TYGEMAKIVDVPPTKQLRAPDPIDSMCLCH FCNHFVSPFCITRNGCVDMEHFKVVKHTHQI EDERERREKKLYFGYSLLGAHPILNLNTQIG RMQRATEGRKEELFALYSAHDVTLSPLV SALGLSEARFPRFAALFELWQDREKPS *IVFVRLYNGVDPVTFHTSFCQDHHKR KPMPPLENLVRFVKRDMLALAGGSCTN YYDACHREGF
4218	12269	A	5139	167	688
4219	12270	A	514	188	478 QRGVLLKTAANLVPEDLGREGMRIFSVK TWKTFCTIFKGTNHLFLFYFFFETASLS EAQAGAQQLGSLQPPPVGSSDSPAASAPI AGITGACHII

4220	12271	A	5140	3	120	QRDSYAREFTTVSCSCSAELQT/GEFAT ARNIFLSGFQVVLIEDTFLFEGGGQQPDD RGTTNDISVLRVTRGEQADHFTQTPLDP GSQVLVRVDRWERRFDHMQHSQHILIT AVADHILFKLETTSWEVGRFRSAIELDTP SMTAEQVAAIEQSVNNEKIRDRLPVNVR LSLDDPEVEQVSVSQRGLPDDHAGPIRVVN IEGVDSNMCCGTHVSNLSDLQVV*ILGT EKGKKNRNTNLIFLSGNRVLKWMERSH TEKALTGLLKCGAEDHVEAKKLQNS KILQKNNLKSAA/RT*AVHIAHSLKEQSR LGRGCHQTQEGG*FRVHEYHQC*RLGQR RPSLFTCGR*ERWWTLLYWQGHRLR.LW RPWGPGWLRSSWEGKGAGKKGRFQGKA TKLSRMRMEOAQLSPGLHLQHAC
4221	12272	A	5141	3	306	SROWLTFADQHSGPAAPCPGEV*RTG ALNPKTFQG/PSAPGCPVPHGASHP*T PQLQPGNKSQMKPVKGFPSSGAGGA WASL*PSSLPPDLQYLL
4222	12273	A	5142	1	306	FFFPLF*RCQCSVAQAGQWYDPGSQKP PPPERFERFSCNLNPSS*DYRRPSPSLAUFV FLVETGFHHIGODSLKLASSDLPISASQS AGITGMSHCTWPV
4223	12274	A	5143	81	657	TAEKGGEETKSGELGRSQRTLSQVGATR GTSEEITLIVQMRDAGGSALCSGIGGEGK WSVLGVILKDDDRIVLAVCMHEIKRGI EDDSKVFFFFFFFLEMKSCSVVAQGVWOWH DLSSLOPALPRVK*FSCSLSPGSWDYRH VLLRLVN*FLVEIGFHHVVQAGLKLTT SSDLPHSASRASAGITGVSHRARPG
4224	12275	A	5144	3	494	ETEDLALSPQAGVHWAR/SLSSLOPPPPG VFQQLCLSLSSWWDYRG/CPHPHPAKFL AF*VETGVSPSWARLFLNS*PRDPASAS QSAFEGPRR WASVCSNSVKSMLSSAFNWC CRLHKEKWMRROKTHTMIPHNSNRCSS RHFSPRISSIEYYNNRLRHTLLAGRF
4225	12276	A	5145	3	123	EGSHSULPKL*CSGAIAHNCNLKLLGSR DPPTSASGVAGT
4226	12277	A	5146	3	292	RQLRNSVTHSGVQWRNPGSLQPLPPGF KHFCSLSSWDYRHTPQCPA/IFVFLV ETGFRHARLVSNS*PHNLPVSAQS/SAWI TGLSHHARPCVSF
4227	12278	A	5147	2	303	FLGWSFTLVVQAGVQWRDLSGPHPLPP GFKQFFCLSLPSS*DYRHAPPHLANFPVFL GEMDFLHAWQAGULELLTSGDPPTLASQ SAGITGVRHCSRPVSE
4228	12279	A	5148	2	613	PRVRTRYFGSVGHDTQLCLWDLTDEDILF PHOPLSRARTHNTVMNATSPAGNSNGS VTTPGNSVPPPLPRNSLPHS/AVSNAGSK SSVMMDGAIASGVSKFATLSLHDRKEKAP RERSOSRNEHSMGIINF*QEASDKLESS/SP KPKPDPAKTLGTPLCPRMEDVPLLEPLIC KKAIAHERLTVLIFLEDTCIVTAQCEGFICT WGRPG
4229	12280	A	5149	2	393	IGPOPOLTEFOVSLQDLEKILSGLVFFPHL DRTSDFRNCSVDTCKLDFQEPFLYLST RKEGARSVLRDKIMDHLKVN*NEPYD YPMRYYKKLQELTAIDLSTTHISQPSLL SYTTCISGATPPFT
4230	12281	A	515	355	612	SFSISGSFSASIALVCLCQLLAJKGSVFEVG GISYCPNLFVFLDLOVVAPEEDEERKRR ERNKIAAAKCRNKKKFKTECLOQKVSAF
4231	12282	A	5150	644	962	NASSLAWTVLLKLVGF/GAGQCMGNFF FCWVGAMESPSVVAQAGVQWRNGLSLQ PPPGFGRFSCLSFPSSWDYRHPHPPAN FCIFSRDGVSRCWPGWS*TPDLR

4232	12283	A	5151	3	321	RRCLCAGYFKNVARRSCWRITCTMDGR GSPVHMPSSALHJEQETKLEWIFHEVLV TTKVVARIVCPIRYEWWRDLLPKLHEFN AHGFEQCGPT*SERCKKEMDK
4233	12284	A	5152	237	602	LLITGRQYSLTFRRFYIHLRNKILNSLG KPPKLKHFYTEAFAFARNPQDMEFHSVAQ AGVQWHIDL*LOPLPAGFKQFCLRLFLS SWDYKGTTPCLAGFCIFSRDEVSPRWRG WS*TPDLK
4234	12285	C	5153	166	417	
4235	12286	A	5154	282	1112	FLKRENLLKNVCRNKLDDLRLPNRASP7GS QEWRQHGVQSEVQVFHSLLKPGPPADS CRTAA/GDPGTTETADPGHTGLELRFPEP PKITPLALSEAPV/PERGENTGPRSLPS TPMPSWGPFLSSPPRATSPSPSQAN*PP PPRSSHPTTVPPTRQPWQPQGCCAOQP RPLCI*RGGN*VY*GMQLHQKSWSVPH SQWPQKREGNGSSHEIHPSCPSPGFHGPS PGRMPTQAGALHSWVPGLSLSHGSGP HPPRWTATVQAAPRVPPLNL
4236	12287	A	5155	69	734	SRGLRHDVPGGLGGV/GVRR/RENDEGY EGGRNEAGERHGRGRARLPNGDTYEGS YEFGKRHQQIYKFKNGARYIGEYVNR KKHGGTIFYPDGSRYEGEWANDLRHG HGVYYYYINNDYTGEWFAHQRHGQGTY LYAETGSKYVGTWVNGQQGTAELIHL NHRVQGKFLNKNPVGPA/AR/CI*CWV*T TW*ISPNRYGKRRRRGGGRISNCCSKME SYNP
4237	12288	A	5156	4	674	VGQRGHFOEAKGSGRCCLSSLNVPHSPPP SAGMDPSSPPVNPNEAEGGLAQVPSAAL AQVAPGPVPISSLLEGTPNPSLPP*ERGNSS HKQAS/GPERGARPPALLGPQEI/GGSSK/Y PPPGPGSTLGKGLLASPRCGPPQVLGVWG LRDPTRLLEEGP/WGL/ GNTPREPSIKCSP* MGRMGAQPLPKAEGAPPPTQLPPTHSPR RILGPLGASPERPPPRVVPGGEG
4238	12289	A	5157	3	342	NFFFLRQSF/NSVTQAGVQWRDLGSLQP LPSGFTPSCLSLSSWDYRHPPPHPANF LYP**RRGFTLLARMVLI*PFDPTTSAQ SAGITGVSHGAWPKSIFFLNAEVMLYY
4239	12290	A	5158	1	251	VCVCGFCVLETESRSVTQAGLQLRHHILC SLQPPPGFKGFSCLSLPSSWDYRCPPPR LANF*FLVEMGFHIVHGQAGLKLVASSD PPASVQSQAEMTGVSHIHALPG*SRSVTQ AGLQRHILCLSQQPPPGFKGFSCLSLPSS WDYRCPPRRLANFCIFSRDGVSPRWSGW SQTRLKL
4240	12291	C	5159	24	362	MGITVFRXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX*
4241	12292	A	516	3	853	SQARTAQLSSLAARAHAPSARAPAVSPR CSPAGQTNSSPPDPVPTLAAPSGAWSKM MLQHPQGVSASEVSASAIVPCLSPPGSLV FEDFANLITPVKEELRFIAQNKHLCHRM SSALESVTVSDRPLGLGVSTIAEVAPEEIDB RKKRERRNKIAAVAKCRNKKKEKTEC LQLQY*QSHRPPLWIIHQGFSSEEGLHP KPSAALPSPIFLSQLDEPRCVIQSEKLES VNAELKAQIEELNEKQHLYIMLNUJRP TCIVRAQNQRTPEDERNLFIQQIKEGTLS S
4242	12293	A	5160	1	287	FFF*DIRVSAQSPRLCESGAILAHCNLCL PGSSDSCASTSPVAGITGMCHHTQLJFVV FLVETGVHHVGRAGLELRLQVHPPQ PKVGLQ

4243	12294	A	5161	1	1672	QTGLQATTKHSGFPVRMDNAWPVQPAQ AAQPLQIQSGVLTQSGCTPLMVATLHPQ VATITPQYAVPTLSCAAGRPALEQDC RCTAGVAWKGLEKQILLPNSFGQQLAWG *ALHNSIVQPTAMYPEAMGSGOQLADWR NAHSHGNQYSTIMQPSLLTNHVTLATA QPLNVGVAVHVVRQQQSSLSKRNKQOS APVSSKSSLDVLPQSVYSLVGSSPLRTTS SYNSLWV PV QDQHQPIIPDTSPSPVSVITI RSDTDEEEONKYKPKSSGLKPRSNV1SYY TVNDSPSDSSLSSPYSTDLSALRGNSG SVLEGPGRVVADGTGTRTIVPPPLKTQLG DCTVATQASGLLSNKTTPVAVSGQSSG CCITPTGYRAQRGRTSAAQPLNLSQNQQ SSAAAPTSQERSSNPAPRQQAFVAPLSQA PYTFQHGSPLHSTGPHLAPAHPLSQ AHLTYAAPTSAAALGTSSSIAHLFSRPG SSRHHAAAYTTIHPSTLVHQPVPVSGPSLL TSASVAPAQYQIQQVATQSYIGSFRGST IYTGYPLSPTKISQCYL
4244	12295	A	5162	1	111	ELRYKAWPGWKADTPQAOITVKWVGV GKSRSEMSIQLF
4245	12296	A	5163	2	1034	DRAHLVFDFHQAQVDGLQEVRQAQEGK NIGTTKGGIPGTYSSKAARTGLRJCDLIS DFDFEFSRRFKNLAHQHQSMPTELEIDEG QLKRLKGFAERIRPVMRDGVYFMYEAL HGPKKILVEGANAAALLDIDFGTYPFPVTS SNCUTGGVCTGLGIPPPQNIGDVGVYGVKA YTRTRVGIGAPPTEQNIEIGGILQTRGHEW GVTTRGRKRCGWLGSAMILRYAHMVNG FTALALTKLDILADVLGEVKVGVSYKLN GKRPYPPG*PGRCKFKGRKLKYETLPG WKAADTTGRPGRWEDLPQAOQTYIRFVE NHVGSRSGYHYQSFLL/VSVKWWVGQ VQESPMLQF
4246	12297	A	5164	3	148	LLSSRDHRHVPPHPANFFCRD/RGLAMLP RLALNSWA*AHPPWPWPKVL
4247	12298	A	5165	3	325	YVFSGDLAHLQILNVSGLIGRLHLADHSV GICLAKLRIAPVPPHNESVFNWRCPVYS SCSYIHHLITSHQFQPSLEIKYWNHLQHN KHANACANA*AEGAMYRHRRLH
4248	12299	A	5166	373	950	SRGVFFFRLRQSFITLV*AAGVOWCDLGL QPLPRFKQFSCOPASLVSWDYRHAPPHP ANFFIFLVEDKGFSMLVRLGLELPTSGDL PASASQSPGTTGVSUHARPMILFIFMPSF GRDRGVSVTQAGVQWHDLGSLQASPSG FMPFSCSLPSPSWYDRHV*#CQANFLYF* *ANL-SRVSPCWSGWSRTPNLK
4249	12300	A	5167	2	334	VRHRHFLVPPQAGVQ*CSLG*QOSPPPVF KQFSCLSLPRSWDYRHLPPHPANFFV/N EKTGFHIVGQAGLELLTSDVPFASASQ AGLTGLSHHAQLSFNLSAKKSFTKTRS
4250	12301	A	5168	35	437	
4251	12302	A	5169	1	1845	
4252	12303	A	5170	1	212	
4253	12304	A	5171	371	915	
4254	12305	A	5172	1	2460	
4255	12306	A	5173	1	933	LESMSGIDPGNRGIGHILLCKDELLKASLS LSHARSVLITTGFTPHNHEPPEETDGP GAVALVAFLQALGRRSP*SLTREPVLH QKIVEDALSKVF*RRRSRY*LTIVKDQW KLLRHSCAKIGDPQTLLRFDHLVAIEERAG RAADGNYYNNARKMEEQAL/RLTFPDDL FLUSAKKIPGISSVUGDGGNGELGMGOKVK EA/DEAHTARGCHRLATWKAFAVIAG VSNWGGYALACALYIYSCAVHSQYLR KAVGSPSAPGRFRPGLRPSRRLRKKKC

					WASWCSTKSGVASRASWAWRWMGCPSTIPTPR
4256	12307	A	5177	1	439
4257	12308	A	5178	1	552 GNEFSILKSPGSVVFRNGNWPIPGERIPD VAALSMGFSVKEDLSWPGLAVGNLIFHR PRGYPSWVMVKGSGTKLALTQAVVVIS YPLLENRVMVVGKANSVFEDELSVTLRQ LRNRLFOENSVLSSPLNLSRNNEVDLIL FSELQVLHDISSLLSRHKHLAKDHSPDL YSIELAGLDIEIGKRY
4258	12309	A	5179	3	1111 ILKSPGSVVFRNGNWPIPREDPPDVA AALSHGLPL*KKDLSPWGLAVGNLFHPRP RATVVMNVNVGNVNLKLDLPPGSGISYPL ENAVPFSLDVANSIISLPSSETPVVLQ LAPSEERVYVMVKGRANSVFEDELSVTLR HSRNRLVFKKTLFLSFTPPQILSRNNEV DLLFSELQVLHDISSLLSRPKHLARDH SPDLYFTGSWAGLDEIGKALLGEDSEQ FRDASKLVDALQKFADDHVPVFMVG PVVLEHCPHNLNTSPGLKTRDLPLRPK QAQEPQQVPYNLAZYKYNFEYSWVFN VLWIMIVALALAIVITSYNINWNMDP SIYRMTNQKISEWEICYLWPRIRKRGFG NWLF
4259	12310	C	518	512	739 MAEHHIWAFFPISXASXGFAXLQPTKATL KXHEGFKXFXXKCKKKKKKTPEGGAXGTX DXXPXXGAGXNXXPXXGXXX*
4260	12311	A	5180	18	594 NVAGTAICSFAPGRRTQCHTREPQDGR PRARLTAWTRARGTCRVAHTHTGRQNHH PMLPLWGFSRHHRAFSEHILSLGCAPPST WT*TRSPA AAAAGP/PVPRKPNPSPPSRS PAGLRRPPGRAGPLTSRPCPGPQASD VGPVRHKQRQGFTSDVSGAWDGPATAAS GPVVRLLPSTLGGRRGRQITRSADKT
4261	12312	A	5181	68	446 RLTSELAQTLAVHPKSARPRP*AGEK GKPKPLQVNGAWD**PRVGADPGHSPD SLDPSTGNDVQGGSYSSYWEGRITIMPLW GFPDRAGLLGSPGSSGPGKRRPILAGQPY KLELOARFLGPGH
4262	12313	A	5182	2	512 APPSATWT*TRSPA AAAAGP/PVPRKPNP SPPSRSRSPAGLRRPGRAAGPLTSRPCPGP PGIGHGCCRQTAQAWPWRRTYQGRGMG PRPRPRPVPVPGERSHSHPSGPPLRSP GPEWGLTSSCPARG/PGGCLCPQNQLPN PGP/SGPASPNLPSPLRHPTDTSGPGFPR

4263	12314	A	5183	14	720	RNFPDPDRTRPRTRGRTRGRTRVRFPGP PVASAGCSGDGRFGEAGTALDGAADS GVRDTLVPHEGSCLRYYRTRPRSRRAH PTPLIRPTSGPRCFGSGDGHTHSVRCPVNAG RPGHILGLGG/AKSSGFAGOKGRRLLAAG TCGVVHVVQGPRLAARPQEVLIFQGGPLQP AAPEOPPATGAWLQPRLRCSEKAL*LP* GAP/SQSPRPMQUTVPGASG*NAGGPGA SGGTRVPG*KLDPDTGGP/SAQHPLSPTGL PHDARP/PPSCPTGRSCVHCPOQLNAVHL* E*PANSELSPRLSEDTGP*AAPTRPGSAG PISDPHSVPPSSPSSSGTALPGHMSS/GG KWYQHQPSACPVLGL//PPDPAEKAGSQ PSFGHLVQAGPHGPGGPHTPAVTSPSPN SRAALPSFSPR*PCPQSPKPQGSCDPRPPR KPKPWKFQGSL*GLPLQKNRPPSPTRG ATPGEPGAL/PLSGNPKSHRDGSALPS MSMSSHARPVSLGSKLGSGLPSSWPGPC TF*WMKCORTRSIRGHSCAWLKA,
4264	12315	A	5184	2	1558	RRSRDGSGYRAPPASHSRPGQAARAPAFR PARREVCCPRPGVPRRARITTRKTPTWAA VATGTRGASAEGGPTGLAHG/SGLAAA GLMGCEPASGWPGRGROGSARTAAAGS SGSSGSGSPSAPTSSVLGSGLVAPVSPY KPGQTVEPLPPAGMTVPGSLAGAYAGYP PQFLPHGVALDPTKPGSLVGAQLAAAA AGSLGCSKPAAGSSPLAGASPPSVMTASL CRDPYCLSYHCASHLAGAAAASCASCAH DPAAAAALKSGYPLVYPTHPLHGVIHSS LTAAGAATTPSLAAGHPLVYGFMLPN DPLPTSATGCRPTGRATSAASPRPKSC*AT /SRHTAEPGTDKLLSGYPSSSLASAAA AAMACHMHPIHTSGATGQPWDAQAOPP PRGWSAAATTPTRA/ALPTPGAPVVP AATGPYYSPYALYQGQRLLTASAAGVSV RGGREGERGIGRKRRGRGGRVQGEAASRT RLITPARGEGLGPRIKERNVLVPISYPTAA TETRWDTPLLPFTSHTOTL
4265	12316	A	5185	6	56	VVAWRGSDSFSGLTSKLVQRFVHHQL LKTVPHQAHY*LPRAALQHQHRC*LP/ DTSQVAASILLASKSSQSTSGLVSKSTSL ASVSQLASKSSQSTSQPSKSTSQSSSES SVFKSCKLTNEDVKHEATFP/LIRLYKTV AWKLVAVGQFSNPVNHHGELNAAIEAL KATLDVFVPLKELADLPQNKSSQESIVC ELRCKSVYLTGCGKSKENAKAVASRE ALKLFLKKVVVKICKRKYRGSEIEDLV LDEESRPVNLJPPALKHPQELL*CVQNQIT AYNWIYLKRKTDFCIV*N
4266	12317	B	5186	133	345	RLSERRRNWTPQAMLYLKGAQGRRYLLR PEPANGPLRPAPHCRIDHAPISTYYILRRPE PSYRSSSYFPDDD*

4267	12318	A	5187	2	2168	KESRRTVRRMLRGRSLSVTSLGLPQWE VEELPVVEELLFLPEVAWEVTNKGJYITV IQTAKATTADEWGENYFLIGPYFEEJNMK TQECEPVDARVRAVDAMNKHGCGQ VHFGRWLJEGSPYVVLFDIGYSAWNLDR WKGLDWEACSVGIPYHDERANDMLJFG SLTAWFELKEVTDHADGKYVVQAOFHEW QAGIGLILSRARKLPIATIFTHATLLGRY LCAANIDFYNHLDKFNIDKEAGERQYH RYCMERASVHCAHVPTVSEITAJEAEEH MLKRKPDVVTPNGLNVKKESAVHEFQN LHAMYKARIQDFVRGHFVGHLDFDLEK TLEFLPIAGRYEFFKTKGADIFLDSLRLNF LLRMHKSDTIVVVFPIMPAKTNFVNVE LKGQAVRKQWDVAHSVKEFKGKLY DALLRGEIPDLDNLDRDLTJMKAIFS TQRQSLAPVTHNMIDDSTDPLSTIRIG LFNNRTDRVVKVILHPEFLSSTSPLPMDY EEFVRGCHLGVFPSYYEPWGWTAAECTV MGIPSVTTNLSGFGCFPMQEHVADPTAYG IVYDVRFRSPDSCNQLTKFLYGFNCMS RRQRFIQRNRTERLSDLLDWARYLGRY YQHARHULTRQSFSKINFHVTG+HAPP DRKDFKYPURPSCSYPPFSFGSSGPSSP QISSDVEDEVEDERYDEEEEAEERDRLNK SPFSLSHVPHGKKLHGEGYKN
4268	12319	A	5188	1	1347	
4269	12320	A	5189	1	272	OTEFGKYRRPSSVPPSPSGSQASSPOSSD VEDEVEDERYDEEEEAEAGF/GRVV'ESP LYAVPYSDSCQVTPSLHCSHFFLPKTD DKSS
4270	12321	A	519	1	760	
4271	12322	A	5191	225	430	
4272	12323	A	5192	16	1420	PSVRRNQRFL*SKCDFDYZWHN*RKQEGC YT/LEKKVLSNRKQRVFDGSSGKLTGS TSSLNLKLSVQSSGNNRSQSSLLDMGNM SASLDVADRTKFDKIFQVLSLEPLCL AEQDFISKFKAHSNPKCLELWAGSRGP GMGGHTIAT*LLGTPVSSKEDMIRQM MIEFRCIEPELNLLALGDKIDSFNSLYM LVTMSHHV*LQONVDPASFLSTTLGNV LTVVKRNFDKICSNQIRQMEEVKISKKS KVGLPFLVAEEFAGLAESIPKNAERVRG DLKDAYTKLIRGVFVNVEK VANESQK PRDVVMMENFHIFPATLSRLLKISCLEAE KKEAKQYTDHLSQYVYISLGGQPLEKLN HFPEGVYEARVAGQIREEVSYQLAFN QELRKVKEYPKVEVKKGLDNLYKKVD KHLCEEENLLQVWHSMSQDEFIRQYKH FEGLIARCYPGSGVMTF
4273	12324	A	5193	2	391	FFFLRWSLA/SV/TQAGVQWRGLGSWQ RPPGPKFSPLSCLSLSSWDYRRP/HAQJ FVFLVETSFITMLAGMVSIS*PRDPPASAS QSAGITGVSHRARIJLLIFKRCSCIRDESPE VFLYVYLFKTNILLKA
4274	12325	A	5194	2	302	KTLOSQCPRLLEVQWCNLGLSLOPL/PPFGS *FSCSLSPGWSWDYRSVPVRSANF*FLV ETAFHHIVGQAGLLELSTSBDPPVVSASQSA GITGVSHSARQ*RAF
4275	12326	A	5195	2	388	RATPRHIIIVRFTKVEVKMRLAAREKG RVTLGKGPRLTADLSAETLQSRREWGP /FNLKEEKNQPRISVPAKVSFISER*IKYF TDKQMLRDFLTSRPAKELLKEALNMR NNRYQPLQNHAKM

4276	12327	A	5196	1	578	VAAKCMHKDAKKGFIRLDMS*FQERHE VAKFIGSPPGYVGHEEGGQLTKKLKQCP NAVVLFDEVDAHKAPDVLTMQLFDEGR LTDGKGTTDCKDAIFIMTSVNASDEIAQ HALQLRQEALEMSRNRIAENLGDVQISD KITISKNFKENVIRPLKAHFRRDEFLGRI NEIVYFLPFCHSELICLQVLNKEC
4277	12328	A	5197	3	1618	
4278	12329	A	5198	495	653	MTLTSIDPVLTIFNFNLCPL/VFTATASSG LGEVE*IA1LN
4279	12330	A	5199	1	1433	MPESNCNSLTWRHSVGRAVAQQGGEHSS QGASLVLGEPRGSSWLLGLGEDTGLW GGILKEGRGLTDGKGKTTDCKDAIFIMTS NVASDEIAQHALOLRQEALEMSRNRIA NLGDVQISDKITISKNFKENVIRPLKVR GLSWHFLLEPKAHFRRDEFGLGRIGIEIVY FLPFCHSELICLQVLNKEFNFWA!KRAKQR HNITLWDREVAADVLDVGYVNHYGA RSWKHEVERURVNVNQLAAL*STRLLPAG GCTLRITVEDSDKQQLKSPELPSQAEK LPLKRLREIIDKDKSTTRRLDIRAPL!PEKG RLTDGKGKTTDCKDAIFIMTSVNASDEIA QHALQLRQEALEMSRNRIAENLGDVQIS DKITISKNFKENVIRPLKVRGLSWHFLLE PKVLTTFNLSVLYLHGNSIORLGEVNKL AVLPLRRLSTLHGNPMEEEKGYRARG HSLHQGIEKVICESDDIFRKYCNNNQFL
4280	12331	A	520	669	823	
4281	12332	A	5200	1823	4712	FFKKNLCAAHYY!TCVPLPFFFFLRLQG LNSIGQAGVQWCWNHSSLQPCPPRKLSSL HLSLPSSWDHRHAPLRLMT/NFKYLRRG LPVLPRLVSNSSWAQVVLPS/SAQSOSIGITD MSH*PAQLPNSLPFKFRQFRSISPGLGM Q*CDHSSL *PQTLGKLFQFSHOPPFYFFVQ MOSCYVAPSWS*TPKENTTIIQPHPHMYT LKTITVIFTYIELYSDIA
4282	12333	A	5201	3	298	RQCSVSA*AAVQWRDLSSLQPPPLGFKR FCSLSSLSSWDYRPPRPSVNF'KFLIET GFHHLGGAGVERLTSDPPGSASQSAQII GISHCTWPFLFK
4283	12334	A	5202	1	422	APMPAATMTARSGAAISTRCPWRPRSP SIPRPSWSGTCCAPTRSLRRAATASQGPS PATNTPSRASPP*RVWAPRTEIKHT AHSLRTGATTGPKLSSAP/VATESGHPDSDQ KPPTHPGTSDTILPPETASHPSTRP*LPP ETASHPSTRP
4284	12335	A	5203	123	201	KRGFCWVVPQVGQGHDFGLWQSPFPGL RQSGFFLWKSWDYGHPPC*ISSSSSS SFSSSSSSSLKLW!*GDLA*VSQRVGIP GLSHWP*PRLGGRTGTLVGNLHFRD
4285	12336	A	5204	88	167	KINMGILLKLVYRFNINPVKTPAGLFSSS SHE/TEIDKRIILKPIWKCTEHRIAKQSLK RTKLEDFLLNFKTYYEATEIKTS*YRFNI NPVKTPAGLF
4286	12337	A	5205	179	474	FGFQINVFKDPVADPNKRSKKGRSLHR TPAGNFVTE*GKGDLEEVYQDILLHTV *KNGKVTKAYSFDEIRKNAQNLIEAA RSLGLMDWVCCVVC
4287	12338	A	5206	195	351	

4288	12339	A	5207	1	1080	ERCTMPDPEPLVRAFDKGTDSPSPPLLEET SNGGRMLHESLRHAPITRMRQSSEDETEA GPVAPSYDEEVEEDIEPRTLNEITTVTDKT SPWSSVISDTSVEVISOPDDEVQREGPSCP PGPFPCREELMVKSSFLSSPERAVVNPHLPR QDPSQSLVACECEASKARVVGESASA NPQPIPCTLSGAQQSSTFVGWSSPQTDP NKEPKSEAPAEELKVATIS*GSVDSA*LA FKKLPLNLASQSRRENHKGPIPDSSDIREQ ROVTGSETSTKOSLLPQIVVPNFDLPP QOLEASLRMLSLSATLPPAATTQDQKSE ATRGALSRPCCRPRPNSLPLNPEEETLR IARIFSSQYSQKD
4289	12340	A	5208	1	1140	AVEDKHSGRSYDITSDLGNVLTTSIAK TVNG*AE5SDSGA6SEDEEDAQEDLMLGA YHSDIDKMMKIVADHKNLEVITVNGY DKDGFVHDIQNDIHASSLNNGRSTVHVK PIDENLQQTOKSACVICHQDINDDHVEDV TGIQHLSLDSDSEVYCDSMEQFGQEESL DSFISSNNGPQYYLGVHSSPPMENSNGR EDIQGPPGNGNIGNMQVVAVEGKGEVK HGGEDGRNNSGAPWREKRAGETDEFSN VRRGRGHRMQLHSEGTKGROVGSGGD GERWGSDRGSRGSLNEQJALVLMRLQE DMQNVLQLRQLKLEMILTAQAKSSTSTL QTAPQPTSQRPSWWPFEMPMSGVLTFAI WTFIAQWLVLYYYQRRRKLN
4290	12341	C	5209	68	331	MLKNVLMRKCGVHDREKFLVLDYFCOS SVLAVLYLILSLCYFPYQDVASECEVKC MPTFOFFKKGQKVGEFSGANKELEATI NELV*
4291	12342	A	521	3	108	VCERERPHQKVFNKMPK*SYRTVPVTE GIVLSL
4292	12343	A	5210	935	1036	
4293	12344	A	5211	1	3270	MRPKTFPATYSGNSRQLQEIREGLKQ PSKSSVQGLPAGPNSDTSLDAKVLGSKD ATRQQQMQMRAATPKFGPYQKALREIRYSL LPFANESGTSAAAEVNVRQMLQELVNAG CDQEMAGRALKQTGRSIEAALEYISKMM GYLDRPNEQIVRVIKQTSPGKGLMPTPV TRRPSFEGTGDSFASYHQLSGTPYEGPSF GADGPTALEEMP/PAVRGLPFPSSRSPRA RPPAPAPTQQLRCQRRGSRGTLPAAGRA LR
4294	12345	A	5212	3	274	LERLIFVGGLGGFFFFPKLRRFKPQIPLVF FSPPFKKKJFPCPPRSLQPPRVLKKGPSPS SSSSSSSSSKKC*PLMFYCHRRWPTGVYV LP
4295	12346	A	5213	403	776	QGPDHFSLFWHILLQAPQSLSPCLKWATA LETTPSPNGLPIVFPVPGFSRAGMIEVSH IISEIFLNPKEKKKGCCPPLPDRNFGKFK APSLKLGVGVLKVFEPKLKNYSDDHVIK VR*IGRSGY
4296	12347	A	5214	165	439	PPROAKMQNLAAPGSHSQSPW/TLRPKA L*LTPSQIWSA*RLKIDTARSFRPKPSFQG PVSLSA1TVGIDGQASKPLKTPQLWCQ LRQYSFK
4297	12348	A	5215	2	525	AAED*HCPIASETYKTITFELWVTLPVEG KSVFPLNTEATHSTLPSFOGPVSLASITV VGIDSQAYKPLKSSQLWCQLGQYSFMH SFLVPICTPVPFLGQDILTKLKSASLTIPLG QPHLIAATLPSLKPSPSHPLVSPHNLPHIW DMSTPSLVTDHAPLTLPLKPNHPPVYVQ EMLPSL
4298	12349	A	5216	1	425	PNEIVYRKGTISFFEDIGRKNKSYSONL LLAKCFLDHKTLYYDIDPFLFYVMTTEYD CKGHHVGYFSKEKESTEDYVNACILTLP PYQRAGY/GKLJIEFSYELSKVEGKTGTO EKLPSLGLLSYRSYWSQTINEISEITS

4299	12350	A	5217	25	193	LGCGCEDSRRKGAPRCFLSLRGDHJSWEPKD *PPPWLFPSNSC*LAAGRSPVRSPPS
4300	12351	A	5218	1	1383	
4301	12352	A	5219	1	1617	MAEVGEIIEGCRPLPVLRRNQDNEDEWPL AEILSVKVDISGRKLIVFVHIDFNKRLDEW VTHERLDLKKIQFPKKEAKTPTKNGLPG SRPGSPEREPVPSAQAQS GTKLPIPQVQITLR FNLPKEREAIPGGEPDQPLSSSSCLOPNH RSTKRKVEEVSPATPVFSETAPASVFPQN GAARRAVAACQPGRKRSKNSCLGTDEDSQ DSSDGIPSAPRMTGSLVSDRSHJDIVTR MKNIIECIELGRHLKPWYFSPVYFQELITL PVLYLCEFCCLKYGRSLKCLQRHLTKCSDL RHPPGNEIYRKGTISFFEIDGRKNKSYSQ NLCLLAACFLDHKTLYYDTPDFLFYVMT EYDCKGFHIVGVFSKEKESTEDYVNACI LTLPPYQRRGORYRKLLIEFSEWELSKVEG KTGTPKEPKLSDLGLLSYRSYWSQTLIEILM MGLKSKSGERPQJTSNDISEITSIKKEDVI STLQYLNINYYYKQYIILTSLSEDIVDGN ERPMLKRLRIDSVKCLHFHSQRTWSQE VDSGDQDTCPHCKCORPASQDLGAD
4302	12353	A	522	383	542	WLSPPPNSNILDITTAGETPEQDINRERER EKEERERERERERERERERERERERERERER
4303	12354	A	5220	890	1537	MLLMFICDLLLLTSCSIALGYELSKVEKG TGTPKEPKLSDLGLLSYRSYWSQTLIEILM GLKSESGERPQITIK*AWRCLPGGTWHG LSVPGLSLSGLLGTDKGPQGT*PVLSHSE ISEITSIKKEDVISTLQYLNINYYYK/GREA GRGDRCVGCCVQSSVG*PPAEPPISSAQ QYIILTSLSEDIVDGHERAMLKRLRIDSK LHFTPKDWSKRKGW
4304	12355	A	5221	2	434	LRDGVLCHPGWSTVAQS*LTAALNFWV VRGSSCLSL*VLRNNSPLHPANLFFYFC R/DKHLTILTRVLNFWAQVILRPLWLPKG LGITGMSHCTQPNFKNQRKGYCOVNPN NQTKTLSLAGNTYFTPLFFGNKHVTSY NPFM
4305	12356	A	5222	3	384	VVAAEVPSSFFFFLRTESCFVTQAGLQW HDLGSATSI/SPGSSDSPASASQVAGITGR HHYALA*FVFLVDMGHHVGSOWSRN SLNLVNLPCLGPPQYWGLQGMSPPMRPP LKCPSLKGKMPNHSIP
4306	12357	A	5223	2	322	LYFFSFETECSVVTQAGVQ/WWCDLGS ATPPPGSSNSCASAS*VARITGVHIIHAQ LMFVFLVETOHHF:GOSGLKPLSDPPAS ASQAGINRCEPPGTGHYIFSK

4307	12358	A	5224	1	2535	MQPLDFSSGGSDPNISLSEKIRDQLVVGQ LIPDCYVELEHILSERKVNPIEFPVIDRKRR LLQLVRENQIQLDENELPHAVHFNLNESG VLLHFQDPALOSLDLYFVEPKWLCKIMA QDVSSIFGLYIRDILTVKVEGCPKHPKGII SRDVEKFLSKRKPKNYMSQVFKLL KFQHALPIGEEYLLVPSLSDHRPVIELPH CENSEIIRLYEMPFPMGFWSLNLINRLRQ ISPYMMSGRGCILLQQVVDHDSLMEW FPGLLEIDICGEGETELLKWLAYSFNDGE EHQKLLDDLMKKAEGDILLVNPDPQRLL TIPISIAPDPLADPPRNIMLNNDLEFEQ APEFLDCFCVCHLYPSSDYISRHYMRTI NIVQTGFAKCRWTVHVGADHGDDGSGF SVYRAAYEGEEVAVKIFNKHTSRLRLRQ ELVVLCLHLPHSLSLAAIGIRPRMLVM ELASKGSGLDRLLQDQKASLTRLTQHRIA LHVADGLYIYLHSAMIYRDLKPHNVLLF TLYPNAAIIAKIADYGIAQ/SLL*ND*KTI QRGTPGFRAPEVARGNVIYNQQADVYSP GLLYDILTTGGRIVEGLKFPFEDELEIQL GKLDPVKEYGCAPWPMVEKLIQCLK ENPOERTSAQVFDILNSAELVCLTRRL LPKNVIVECMVATHHNSRNASIWLGG HTDRGQLSFLDLNTEGTYTSEEVADSRILC LALVHLPVEKESWIVSGTQSGTLLVINT DGKKRHTLEKMTDSVTCLYCNSFSKQ KQKNFLLVGTADGLAIFEDKTVKLKG AAPLKLINIGNVSTPLMCLSESTNSTERN VMWRGMWHKDFELLE
4308	12359	A	5225	2	223	LGVAFOCCFCFWFELFGFVGQLLSSL EKFOPLCLQIFFLSPCPIRSLYI/C*SSKVV SQLTVLLVPVFFSL
4309	12360	A	5226	236	1626	LAAAHHPLAGLGVGEAWIGGAKSWLSE SAGSSCMAEMATATRLLGWRVASWRL RPLLAGFVSQRAHSILPPVDAINGLSEEQ RQLRQTMAKFLQEHLA/PAKAQEIDRSNEF KNLREFWKQLGNLGVLGITAPVQYGG GLGYLEHVLVMEEISRASAGAVGLSYGAH SNLINCQLVRNGNEAQKEKYLPLKLSIGE YIGALAMSEPNAFGWMVMSMLKLAEEKK GNHYILNGNKFWITNGPDADVLVYVAKT DLAAVPAISRGITAIFVEKGMP/GFSTSKK LDLKGMRGSNTCELFEDCKIPAAANILGH ENKGVVLMMSGLD/ERLVLAGGLLGL MQAVLUDHTIPYLHVREAFGQKIGHFQL MQKGKADMVTRLHGLFGQYYVNVAK ACDEGHIPKDCAGVILYAAECATOVVAL DGQCFGGNGYINDDPMGRFLRDAKLYE IGAGTSEVRRLVIGRAFNADPH
4310	12361	A	5227	1	867	MATATRL/LGWRVASWRLRPLAGFVS QRAHSLLPVDDAIGKVLR/ESQRQLRQ MAFKLQENLAPKAREIDRSNEFKNLRE FWKQLQLEP/WAVFGASQPLVQY/G/FRP GAYLGSMLLG*WEIISPSFSGAVGL/STYG AHSNLSHQPSLRRNWEFRAQKEKYLPEG *FSGEYIGALAMS/XPAGHSVDVSMKLK AEKKGEATINLGAKMGRGNHYILNGNK FWITNGPDADVLIVYAKTDLAAVPSRG ITAFIVEKGMGPGSTSKKLDKLGMRGSN TCIELFEDCKIPKG
4311	12362	A	5228	3	391	SHHHIPLAAPSILGEAAISRSFQSLACSPGL PAADRLSYSGRPGSIRQAGLGRAGDSA LVLPPSPGPKRSRFSMDSEEGSLLDEDS EVFKMLQENREGRAPRQSSSFRLLQE LEAERGGTAP/FLASSLSPQSFARLQLQ/G GLATPPKLIITCEKCKTSIANQAVRJOEGR YRHPG/CYTCA/DCGGLNLKRRGH/WVG DELYCEKHBHQRYSPATLSSRA*APFG

					SCRKPWKLRRREVARQPSWPAH
4312	12363	A	5229	2	384 FVHFOSKKTMRKICLFFFFSSETGSRSVS QAGVQ/WARVIAHCNLKLLDSSDPLALA LAS*VARTVGMYHRLACVYFIQINILIL YFLAQMNLLKKHQTFLFYEMLNLIASQA GIKIYSSRNRIKVFWPQ
4313	12364	A	523	389	549 ERKRPSRSKQ/RERNRKNNQNERKSRGDW QRANVGAGQKEEMKCLAVELEIGSQPR S
4314	12365	C	5230	301	369 MPTILYNHCFIQLIFTIISKLISY*
4315	12366	C	5231	210	329 MWNLICWWRVNCTINNTNMPTILYNHCFI QLFTIISKLISY*
4316	12367	A	5232	2	268 FFFLKRD\IRVSPCHPGILSAVAQL*LTVAL NS*VKGSSYLSFQS/SWHRYYVLPYLAN FKNFFFKRRELTFLRLILTSWAQVSFLL QPK
4317	12368	A	5233	1	415 LFAQPSAMFYLAIAVSDFYVPVSEMPEH /KIQSSGGPLQITMKMVPKLLSPVLDWKW APKAIFIJKLETDPAIVINRARKALEIYQ HQVVVANILESROSFV/FIVTKDSETKLVS THSFYR*QKLK*KALIGSKIVQGS
4318	12369	A	5234	3	705 PVRFLDNFSSGRRGATSAEAFLAAGYGV LFYRARSASFYPAHRFPPQPTWLALSALRPS GPALSGLLSLEAEENALPGFAEALRSYQ EAAAAGTFLAVEFTTLADYLHLILQAAA QALNPLGPSAMFYLAIAVSDFYVPVSE MPEHJKI0SSGGPLQITMKMVPKLLSPVLD KDWAPKAIFIJKLETDPAIVINRARKAL EIQHQVYVANILESROSFV/FIVTKDSET KLILSEEKKK
4319	12370	A	5235	200	636 GPCAMFYLAIAVSDFYVPVSEMPEHJKI QSSGGPLQITMKMVPKLLSPVLDWKW AFISIFKLET*PR/LIVINRARKALEIYQHQ VVVAANILGVKDSPCLLL*PKDSEPKLLL SEEIEKGVEIEEKIVDNLQSRHTAFIGDR N
4320	12371	A	5236	17	424
4321	12372	A	5237	1	338 SDRQLDC/ALDLMR/RLPPQIGKNLNSLNI DLVPSLCEDDLSSVDQPLKIARDKVVGK DYLLCDYNRDGSYRSPWSNKYDPPLE DGAMPSARLRKLQVEACPCHTSLSVLST FP
4322	12373	A	5238	2	160
4323	12374	B	5239	46	426 MSDQQLDCALDLMRRLPPOIEKNLSDL IDLVPSLCEDDLSSVDQPLKIARDKVVGK DYLLCDYNRDGSYRSPWSNKYDPPLE GRMGGNNAVKLRAEKSLEVGVKANKWPF DQYPKTLLELLDPG*
4324	12375	A	524	1	495 EELVP1FLFLFHKJKELEGTLPNSFYEASITL IPKPGKDITJKKENYRWISLMLNDAKILNK ILANQIQQITKKIIHHQDQVGFIQPMQGW NMHKSINVINHHVNRIKKNKNHMISDAEK AFDKIQHPPM1KTLSK/MGIQGTYLSVIK AIYDKPTANIKQTFQIQD

4325	12376	A	5240	2	938	PRVR*APGPAAGGRATDAGTGTAAAT TMSDQHLDCALDLKRLRQPQKFLNLS LJLDPVSLCEDLSSVDQPLKIAARDKVVG QDYLLCDYNIQGDYSRSPWSNSKDDPPL DGAMPSAURLRKLVIEYANNAFDIQYRDL YF*KVGVSVYLVWLDLWGHGFLS/VILH KRKGWEDGIKRRSKGCWDSH/VVEVQ EKSSGRTPHYKLSTV/MLWLQTNKSGOS CTMNLGGLS/TCRMKEDETVSDSPQIS/ ATIGRLVEDMENKIRSTLNEIYFGKNKG YRSMGLRSVQTF/ADNSKQEAELTLV GFERESKQC
4326	12377	A	5241	1	1911	
4327	12378	A	5242	3	803	ESVAAALSPPLGNEVDIDVEHGGKRSRLT PVSPVEVSATGEKSSSPQSSCSDPSKPG GNVVEGATQSLAEQMRKJALESEQRPEAS LCPFPPGTGQPSDLWPAPPHSQHLCS PTYKPEAGAGCWLAUDVCCHLKSRWEPA RTL*LLGLCEWPLFLPDPCLCSNCTCACVL PDCLPGRARAMVRLRGLLRSPVPCSW*VLF QEQQMSDNCSDGGDDWTHLSKEVDPDS TGELOSLQMPSEGPSSLDPSQEQPTGLK EAALYPHLPPG
4328	12379	A	5243	2	1511	RGGCDRDGFPSASSPLAMASLTVKAYLL GKEDAAIREIRRFSCCSPEPEAEAAEAAAG PGPCERLLSRVAALFFALRPGGFQAHYR DEDGDLVAFSSDEELTMAMASYVKDDIFR IYIKEKKECRRDHRPPCAQEAPRNVMVHP NVIICDGNCNPVGUTRYKCSVCPYDILCS VCEGKGLHRGHTKLAFFSPPGHLSSEGQFS HSLRWRKVKHGHFGWPGWEMGPPGN WSPRPPRAGEARPQTAESASGPSEDPSV NFLKNVGEVSAAALSPLGIEVDIDVEHG GKRSRLTPVSPESSTEEKS/SQQPSSCCS DPSKPGGNVEGATOSLVAEQ/MRKJALEAS EGRPPEQMESENDCS/SQGGDDDWTHLSS KEIVDPTSTGELOSLQJLQMPSEGPKLGSJTP PREQPTGLERKLPLYPHLPAPEV/DPRLDL SPFSQIACSMGLSS*LKGGLGSTRVGRP KNY*HSLERLWDTIQYSKUHPAVVDHFL PTTFLRAPLPLVIVFVKLCVELAGL
4329	12380	A	5244	24	493	HWVOLPLRKVKRSLPLKTHNCALPTKLS AVRDYFLYSENLNFPQNLKDS*RGC*QA LKS/PTAVVFVLSLSHSFSFAVSEGCFH ERQVASTSMEQLLSSLAGIPFVEDSCPLQ KELSKTLPPLTLEVLGVSMFFKFSWLPTV WVFGFISQLSLES
4330	12381	A	5245	I	4547	MKNPVPHSIIAGATVSHQTDGFANVPNMP ALOSQJLTSDTYSQMOMQIMPSNSTRLPV AYOGNQGLNQSFSEQVWDTQQCISKG LTYPDYRPPPKLRYSPQSPQSLPDTQKQ NFIPIHTSLQVKNSQNLNSVLTLPQRQTS VPSQYATQTDKRPPIPYYNCRYGSQPL OSTQHITKHLSEMEVPOSREMLSEEITSF QQQWQNPNENVTIGNFTNLKVNTNSK QFQNSPIRSSVSDGVQTLAQTNEEKIMDSC NP
4331	12382	C	5246	191	397	MLPRAGLLCLGKLVPNNFSQPSRQILCL GCDSPHTVGHGWKTTLPAGAGATPYRI GPFSLLQRGV*
4332	12383	C	5247	598	744	MSKVLNQSTYITVQCGYVSINSFYVSFY YSIKLAKRHLGIFTFRTVLVI*
4333	12384	A	5248	164	355	NGSTGCIGIQANQYFNYSRSLSSFESGKFV KCTEQLELVPGENHR*LLLEGSKKKI.TLK NLFRNM
4334	12385	A	5249	I	308	KVQSFIFYLFIYF*DGV*LFPGWSAVV LSRLTATSA/AFRKQFQSCSLSPSSWDYRC PPLHANFCII**RGFTMLARLVSI*PQ VIRPWPPKVLGLQM

4335	12386	A	525	219	471	INFKKKNRFLNKWVWTCVATLEKNKMS NSFLMIPKSNK*PKNPNVRGKKL*NLF ILLYFKF
4336	12387	A	5250	67	367	SDELRTPGRESLPAENISL*DRVNHQPAIE SCIA*NVLYSINAUTKGEMLEAEGMRV VTNSVYHWRLCQQTVLMKAGCWRT DKLCLPPEGMLWAVMSR
4337	12388	A	5251	1429	1621	IPWIPPPVSRSMVHTWRAPTRFVHLPFFQ TDPFVVFISAFVLLRLVQKQP*QVVVPDQ GPERGR
4338	12389	A	5252	180	411	IPWIPPPVCPFHGHTHLE/VPHGLSISLYS PPADSPVQGFVVRISFTSALADLPRSG PWSDTTCH(GCPTVAASSESL
4339	12390	A	5253	288	530	
4340	12391	A	5254	9	257	IFTAVAFIISSEWKQPOCL*TNE*/IKLWYI HTMQYSSAIIKRNNEKLHATTWWMNSENV QW*KARHKKPHIV*LHYEQSQRQI
4341	12392	A	5255	6215	7038	RTVTTFLSKDSHGVYCAQGGKIPDHQNP QCNRKQHPVSTILMLDKASFCQQLRKRRKH NLSVNCINRNPPMSLKNTSWHSSLSVTQ RHQQOSKLHFOGSILLH*PSQNL/SNI^K CINYC*HCSSVLLSYLFIETESYSVAQAG VQWHDLGLLQLLPLRFKQFSCFSLPPSSW DYSRAPCPANFCIL.VEMGFCHVGQAGL KLLASSDPPALASQSAGITGVSHYTQPCS PFLKSTGJ.FSKVNLSPVHKGRIYLGRM CFLNSTWHVKSTLFCPLPI
4342	12393	A	5256	2	513	VLIQOLVWIAIALLVDPSPRPVLTKEDEPASSS TSSFTSQSKKGQOQSFGLOSRN*GCIALC E/VFQREEIY*VGMDS*DSFRJKWFFNFIFH LTVTSSDLHHGEGIWWVPNTDHVCTRFF FVYDDCLVYYAYINTLL*GFY*ILLVW NYTGSVWHWPIPYYLVLNVLVFCFLLYI
4343	12394	A	5257	I	274	STPPHSQRACEPLPSFAQPCR*APSPAP HCALICPIPKMEERP/PM*IGR*RRHLLST YCARSCTEQ/APCIILNPHNVLDLSRLRW VKQG
4344	12395	A	5258	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNCSYLDSTFLCFLAFSSVLDTVL LRLPKEKNDDVEYSETQELLRTEIVNPLRI YGVVCATKIMKLRLKILEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
4345	12396	A	5259	I	340	
4346	12397	A	526	I	1423	MNPNOEEISDLPERIQETEKEGTLPNSFY EASITLPIKLGDKTKKENYRPISMNMIE ANILNKLILANQIOQHIIKKIIHHDDQVGFISQ MQQWPNHRSINVIIHINRIKNCNHNMSI DAEKAFDKIQHFMKMTLSKIGIQGAYILN VIKAIYDKPTANIIINGKKVEA/PLPTGT RQGYPLSQLFFNIALEVLARAIQENEIK GHIIGKEVKLSQLFAGDMIFYLENPKDSS KKLLELIKESKVSREWLNENTWTQOG EHHTTPGPVVGSEERGIJLGDTPNVNDK PLTGAALASTLGVWENENKFTHLNFIHS QCLPLSPQGIFLFCGTSTYVCLTNWISTC TLFLSPKIDIAPGNQTLPPVPRQAQVHQH RAVQIPLLIGLGVTNATGTGIAGLSPSLS YYHTLSDKLSDSLLQDIAKSTLTLQSQUDS LAAVTLQNHNRGLRPPNRKRWAMHFLR GRLFFFHOPVWD
4347	12398	A	5260	215	384	

4348	12399	B	5261	347	1742	MPNTNGSIGHSPSLSLAQSVMEELNTPAQVESPLAMPPGNSHGLEVGSIAEVKENPPFGVIRWIGQPPGLNEVLAGLELEDECAGWYGVNLNQEGTRYFTCALKKALFVKLLKSCRPDSSSSVLDTVLLRPKEKNNDVEYYSETOELLRTETIVNPLRISACQVQDCYFYQIMFMEKNEVKVGVPITQOLLEWSFINSNLKFAEAPSCLIIQMPRFGDFLKFKIIPSELNITDLEDTPRCRIGCGLAMYECRECYDPPDISAGKIKQFCCTCNTQVHHLHPRKLHNHKYNPVSPLPKDLPDWHRGCIPCQNMELFAVLCIETSHYVAFVKYKGKDDSAWLFDFDSMADRDESNNEFVQITGVIGKGGKETEGRVLTLHLIRAGSSVHVHCRQWMSLW*
4349	12400	A	5262	1	1547	PVQESPLAMPPGNSHGLEVGSIAEVKENNPFFYGVIRWIGQPPGLNEVLAGLELEDECAGGCTDGTRGTRYFTCALKKALFVKLKSCKRPSRFSASLQPVSNQIERCNSLAWEAYLSEVVEENTPTQOKWEKEGLEIMIGKKKGIOGHYNSCYLDSTLFCLFAFSSVLDTVLLRPKEKNNDVEYYSETOELLRTETIVNPLRIFYGVVATCATKIMKLRLKILEKVEAASFSTSEEKDPEEFLNILFHIIHLRVEPLLKIRSAQOKVDCYFYQIFMGKK*GKLGVPITSGSC*EWSFINSNLKFAEAPSCLIIQMPRFGDFKLFKKIIPSELENITDLEDTPRCRIGGLAMYECRECYDPPDISAGKIKQFCCTCNTQVHHLHPRKLHNHKYNPVSPLPKDLPDWIERHGCIPCQNMELFAVLCIETSHYVAFVKYKGDDSAWLFDFDSMADRDGQGNGFNPVQVTPCPVGEYLEDVSWKTLHSLGLPGEQSQGCARRLLCDAIYVPCCTSPTMSLYK
4350	12401	A	5263	29	258	LRKYHATDLIS*GSVVGEFDCCFSFLDGSEDAVDGJLJLALQPHKEQYKEFQDNLNQEVNMNLDLILKVTSTSQKLD
4351	12402	A	5264	98	497	THENNYNEKKDEIKIFKISLQISAQEEFPFFRKWKSCLCCPRLGVQWHDLQIISLQPPTPGFCRFSGLKL/RRAAWIYRYPITSG*FLYFQ*RRGFTHVGVQADLDDLLTSQGDPPVWASOSAGITGVSHJHAQPPYC
4352	12403	A	5265	156	1047	VPAGEARVQWHDLGLQPPPGSSDSPASSRRVAGITGIKNTTICKKCAQNVLQYGLTPKPCQYCNHIAAFIGNKCORCTNSEKKYGPPYSCEQCKQQCAFDRKDRKKVVDGKLLCWLCRTLTSYKRVLQLQTKTEQRKHLSSSSRAHQEEKEQYSRSLGGGHYNSQKTLSTS SIONEIPKKSKFEISITNGDSFSPDLALSPGTDHFVIIAQLKEEATLKKMLHQKDQMILEKEKKITELKAQFQYQESQMRRAKMQMNEKTHKEVTEQLQAKNRELLKQAALSKSKKSEKSGAITS
4353	12404	A	5266	156	960	VPAGEARVQWHDLGLQPPPGSSDSPASSRRVAGITGIKNTTICKKCAQNVLQYGLTPKPCQYCNHIAAFIGNKCORCTNSEKKYGPPYSCEQCKQQCAFDRKDRKKVVDGKLLCWLCRTLTSYKRVLQLQTKTEQRKHLSSSSRAHQEEKEQYSRSLGGGHYNSFSPDLALSPGTDHFVIIAQLKEEATLKKMLHQKDQMILEKEKKITELKAQFQYQESQMRRAKMQMNEKTHKEVTEQLQAKNRELLKQAALSKSKKSEKSGAITS
4354	12405	A	5267	4	496	DGFPSCCQAGVQ*HDLGSRQPPPPGSSDSPASASRVAAGTGTGMHHI*SRDVLIRLELEEGLELCPHFSVRKLPTGTQILTLMMSLAPVKLAPQPKLSSWMLTRTQOQAVPSPPGRWGIGRKRKVLPVIAADGWASGQARGLLGGSGKGEKGKATGCEREGTCLLOG

4355	12406	C	5268	190	435	
4356	12407	A	5269	114	267	QLYINHTPPPLSKSKEREMDKDLDKSR TLKQKQKPLVNVHNSWF*DHSN
4357	12408	A	527	31	332	
4358	12409	A	5270	1	1071	
4359	12410	A	5271	1	1231	GRFLCCMLETIVTRWHSDRATYEKECGN YGPGLTILRATGFDGGNKADQLYENPR HVVHWHYKLTKASVHCLETGEYTHIR NLLVLTKULPWYPKVNLGQALERRVHK JCOEEKEKRPDLYALAMGYKJIF*CDLQ D*MTEGF*RL*NVJQC*SLSSAFRRLWEI MRSCHRLVRVITTSDYQLPVYTG*FP'S HV*YFLIGRKYNFIIVNRSSRVKKKKPS* FKD*FIGKL*FLRKLGVL*KPSRTY*KWV FFNSLEPHSRMNNLLFLKTSCLCFLIW VCFKHVFVRLSSYSGQLKK*EKSIP*YEPN EPFSQRPPPNAVAISVQNGVGGGSSS SIGASKSDESSTEETDKSRSRSGCGVKA VNKAStTPKGNSNGNSNSNKAKE NDKEKGKEK
4360	12411	A	5272	2	3383	ITDQVLLPSSLMDCMACMSEELWGME KTFPYQHRYRLYGGWKNETYNSHIPLLV KVKQATIDRAKYIMKRLTKENVVKPSGRQ IGKLSHSNPTILFDVYCFTEILSQCQYDNL ITPPVDSLKYLTSLYDVLACILSNCIEA LANFEKERMKHDDTTISWLSQSLASFCC AVFRKYPIDLAGLLQYVANOLKAGKSF DLUULKEVVOQKMGIEITEEMTMBEQLEA MTGGEQLKAEGGYFGQIRNTKSSQR KDA
4361	12412	A	5273	442	1457	KHFLYIYAQMNCFSIRLKKKKKNQOLL LQVFSSADE*GSSSSSSSSGGHKRHKHKH RNRSSESSRRSRRHSSRSNSQIDQNRER* VLPSST*YFSISFSFP*TRSGRKLLGKQDR LQEKTQJKEKDRCPLSSSLPDDFGG RSEDPRDFYNSYKTQAGSSKTEKPYKSE DIPARRNSSDSFCRNSEAKIYGYRREK DIEGRKEHYRWEPSGSRHSTSASSEY SWKSVKYYKVAHSGSRDFSRHREOYR LNTNQGEYEREDNYGEDIKTEVPEEADAL SSKEHSESSV/NKFTSEFTEV*SDS*1^K RKRK*GQKINTPKDIGHPLPQNAH
4362	12413	A	5274	2	457	KLIFPFPRKPSAPQEGRFQFC'KIGNRPTQL TGPFVMPVRNVYKUKEKARVITEKEKNF QSPCLVFVMARAKARLFGIRAKKSPRK PQNODVEKEKIKTLPGNFEISLAVMPGSP TWCVSVGTWTALGWGFTACDFLLPRGF GAFLKRQVQAPG
4363	12414	C	5275	27	158	MHSKPTQVSWLGMTTASLPGTNASSM WMPWRLEDHSNLDALP*
4364	12415	A	5276	1	320	
4365	12416	A	5277	100	659	CPLVIRSCSSALWDIETGQQTTFTGHTG DVMSLSSLAPDTRLFVSGACDASAKLWD VYSQCFSLVYMMMS*FAFSQFFPNNGNA FATGSDDATCRFLDLRADQELMTLTPHD NIICGITSV/SFSKSGRLLLAGYDDFCNCNV WDALKADRAVGVLAGUHDNRVSLCLGVTD DGMAVATGSWDSFLKIWN
4366	12417	A	5278	16	495	AFSAPDTRLFVSGACNASAKLWN/VGE GMCQCQFTGHESDINA/UCFFPNNGNAFAT GSVDDATCRFLDLRADQELMTYPHDNN CGITSV/SFSKSGRLLPGMGTTFNCNCNVW DALKSRTGQVFLAGHHDNPROPAWGV DNGMAVATGSWDSFPQDGLN
4367	12418	A	5279	5	108	SRGFTLLARLVLNS*P/CDPPLPLASQSA GU/TLRLGMSYHA*PIIIFETRSRSTVTDG/G VQ*CNHGLLQPWHPLGKESSCLSLPG/G HAPPHLANF/FCNRVSLCCSGWS*TSSD

					PPLPLASQSAGIIIGWV
4368	12419	A	528	27	178
4369	12420	A	5280	1	458
4370	12421	B	5281	403	629 XHVHLVKASCOQACGQLDRVRKQVNVNIPS FIVRLDSQKHIDFSLRSPYGGGRPGRVKR KNAKKGGQGAAGDDEEED*
4371	12422	A	5282	1	637 PVARSWVCRKTYGIDPRGGPFKISRLDQ \\ELKLIGGWVGSGTKEVLR\\VKFTLAQD SAKAAPGNWLTLDEKDPTGVLFERQTP LLR/RGLVPLQGCWDEGQKMK\\ADYIPG P*RLLEDFFRETPCKTQVFQSLGLAKSHQ PRFACLGSRORHIRVRKQVNVNIPS(FIVR) LDSQKHIDFSLRSPYGGGRPAURVKRKN AKKGGQGAAGDDEEED
4372	12423	A	5283	3	295 VCGIVLCLCLGCGVVRWHDHASL*P*PPG LKRSSHLSLLSTWDHRHMLTHPLNFTIV EPRSHHYYAQTGLKLLLGSSSPASASQSR ITGVSHHTQSKK*FLFVEPRSHYVAQTGL KLIGSSSPASASQSRITGVSHHTQSKK
4373	12424	A	5284	2	284
4374	12425	A	5285	1	785 MTGLALLYSGVVFAWACALAVACWV NSGTDWAGGIWLERLRLPRLRGFLGAGG DPACAGVCYTIFDLGFRFDVAVWFLETS PFMWSNLGUGLAISLSVVGAAWGHSLT GSSIHVVEGS*KAPRDSTKTNL\\VSIFCE AVAN\\YGIIMGNCSLSNMTTEPFSATEPQG HRQFGN*PWQGYSHGLGAGLHRKPCLN LFCGIVCVGIVGTVGCPWQMPQNTASL CRKRSIVEFWQAPLALFGVIGRKFFKTS MSERWVTR
4375	12426	A	5286	2	350
4376	12427	A	5287	1	999 NLLKTHKFLLGQDEDSDLHSVPVAQMGN YQEYKLTKASPLREIDPDPQPKRLHFTGNP FKQDKKGMMIDEADEDFVAGPQNKVKRKP GEPNMSYVVKRRSMSLLLRKPQTPTC NNHVGGKGPSSASWFPSYPNLJKPTLVH TDATIHHGDHEEKMENQITPDGFLSKSA PSELINMTGDLMPPNQVDSLSDDFTLSK DGLIQNLVVTHL*EFPKTAAS*MTKKT Q\\HLWELCQHYSKSSLWHKE\\VNADI KHLQMLKEVRKFGRKYERIFLLEE\\VQGP LEMKKQFVEFTIKEAARFKRRLQIYLE KVLEKINSHILHNNSHINSRSSC
4377	12428	A	5288	329	661 ITLSSLSSFFNLRPSFALLAQAGVHWRDLD SLAQPPRLPK*FSYLSKSPRSWDYGHAPP RPANSVLLVETGSLHVSQGGLLPTSGDP PASASQSAGITGVTNCARPPSLSF
4378	12429	A	5289	46	554 NKTRKDPPPYTPAHGHTPPITPSLPG/C SAHGHLPGRSHCDQPPSTCRPVQSPV AIIASQVAGRTWA*KRALHLPGGGVKRK GTGSPKAPRSGCGLPYKLGSTARAAGSC SPAEEPETFSPQGQPLPVNKGKLRRVGQ PSFQCAPRDCSRYFQFGEEQGRAIEHQI P
4379	12430	B	529	110	719 RGRQQHQRWHETPD1KLFGKWSSTDDVQ INDISLQDYIAVKEKYAKYLPHSAGRYA AKRFRKAQCPIVERLNTNSMMMHGRNNG QEAHDCAHROAQLRDHNTCSQAKNULLE VRGTAIINSGPREDSTRIGRAGTVRRQAV DVSPLRRVNQAIWLLCTGAREAAFRNIK TIAECLADELINAKGSSNSYAJNKKDEL ERVAKNSR*
4380	12431	A	5290	228	386

4381	12432 A	5291	3	257	GPGRERETGRTATAVEPDSCEERTYNSNDT KRWCSSHPGGNGGVPERQHGL*ATGSW GAKPLRLAAATRASGNPGHRSLKCLTEI F
4382	12433 A	5292	3	1379	EPFPGEKGTLQAARHFAAMKALQALQN EPPIERSPQNGESGKDMDDDKDANKESE SLVFEIALKRNRNMPVSFEVIKESGPPHMKS FVTRVSVEFSAEGEGBNSKSKL5KRAAT TVLQELKLLPPLPVVEKPKHFFKCRPKT IVKAGPEYGOGMNPISRLAQIQQAKKEK EPDVVILSERGMP*RRERVMQVKVGNE VATGTGPNNKAKKKKNVAVAMLLQLG YKASINLQDG_EKTGENKGWSDPTPGFP EPTNTPKGILHLSPDVYQEMEASHIKV TS/GHYSRSLFV1QRYEPTFKLFSSVYLPH RIVQSTFARHLLMNIGTSSTAEAGLKGS PUPLVPVVQPSKSQLGIFSKGFKAFRHYC DRQWWRVCDLSIDSPCADGL/SHAGSS IEASHDQAAALSAKQFSEQGLDPIDGSM NIKGSLEKQAKHLIKKVDHNQAPPOSIA HDCKISNSAV
4383	12434 A	5293	7	351	SSTSLIRKMQIKTTRYQNIPNRMAKIKA DNTKLWSRLTNWVWEYRHLH*KYV HKKTCNFMLIAALFLKFLKWKKFKHSST GE*IKL*DRHMTEYY*AIKKAQATDRM OHE
4384	12435 A	5294	3	1585	GEPLI/LHHTTCH/NSKALIAFLAFLIIVTSI ALLVLTNLYDLHRRKRCNVDEQOELVE RYDESNLMNVQPIHADIMLETYHRRIAID EGRLFVLAEFQSIPRVSFKFPIKEARKITHN QNKNRYVDDILPYDYNRVELSEINGDAGS NYTINASYIDGFKEPRKYIAAQPGRDEITV DDPWRMIWEQKATVIVMVTRCEEGNRN KCAEWPSMEEGTRAFGECCCCDLTKH KRCPDIYIQLNLNVKKEATGRREVTHI QFTSWPDHGVPEDPHLLLKLRRRNNAFS NPFSGIVVWHCSAGVGRGTGYIJDANMLE GLEAENKVDDVYGVVVKLRRQRCLMLMVQ VEVCNSL*DYSHFGFLDLNLFQVIIIMIFF KNPNSSQPQTVDDFLTKTWT*SPWPML CIV
4385	12436 A	5295	1	1323	MEDSRSKAQKRDTKIEREQLYWPWSRKS GKSKGDLVLHTTYKPSHSISGGRAVSLFLG SPISLGSWTAFLDPPWARVEPIALKGLT QSPNPGGHHRCVFVIPPAPPDGSEQKKR LCSFRRKEQSLSPGNILENSFGSCPRLSRQY VYESARTTALMRLGCPKLQIQLSINQDLS FEYRESLPMKDKQNKHQRISLINTQETI ISPNELSKSGTNSGETEIHDLSDREFKJA VRLTLKEIJDNTKEFVKLYQINLTKREII KKNQAEILELRNAIGIQKNAQSOFNSRNR REEEIISELENRLFENTQRRQNKRKNNK ACLDQLEYRLKRANLRVIGLKEEVEKAI GVESLFKGIIENPNSLEQDINIQVQEYGG TPSRFNPKKTTSRUJLIVKLPKIRDKERILK VTRENKQVT*NGTHIICLAADFSVVAL*A RREW
4386	12437 A	5297	3	226	GSGCEQQGCPPGRYGPGEQLCGCLNGGS CDAATGACRCPTGFLGTDNCNLTCPCQGRF GPNCUTHVGCGCQGAACDPVTGTCCLCPC GRAGVRCERGCPQNRFVGCEHTCSR NGGLCHASNGNSCSCGLGWTRGRHCELAC PPGRYGAACHLFCSCHNNSTCEPATATGTC RCGPGFYQGQACEHPCPPGFHAGCQQL CRCQHGAPCDPISGRCRLCPAGFHGHFC RGCEPFSFEGEGCIIQRCDCDGGAPCDPV TGLCLCPGRSGSATCNLDCRRQGQFGPSC TLHDCDGGGADCDPVSOGCHCVGDYGM GPTCREVGPGSGSPTRP*PRGPAAAPLG

					SGRTSPVRAASAPTAFCVGVGRGR PATL
4387	12438	A	5298	152	990 LLLIHSEEKPFEDNLVYKGAKLSSNSHLHGP RRLCT/GENPEE/CEQL*KAFSAISRSCD SSH*GRKPVKVSECFSDSHLRHTGNHT MEOHSEMERNLLOQKCSHY*ANYSVVF S*SLWESLECS1GF*GDLRINSGENA/FEHH QWYRAFWFSTFVKET/W*SIHTTEK/PWK F*EEEKAFSDASVLGK/HMELLPGCKTYE YINGKEFSDSSLSCI/WRELTWRNP*ECN QC*DA/FSLNSSLSG/HQFSLGTKKYNHC FECGJISFIQCLICRLDCWLNFSSLFF
4388	12439	A	5299	1	181 EIDELN*TITQLYLT*HLYRTLERTP/AYK FFSSVHETHTSRIDHVLEHKTSLNEP*RLK
4389	12440	A	530	443	565 QPGFAGARAPNILTTHKHLG/LLEFKTTG AQQQGF*LNESF
4390	12441	A	5300	1	170 PPPPPPLPD*G*PPSPSLSPGQLQLSAPP /VPLCPDITLSYPGRRPVVLGSLMD
4391	12442	A	5301	846	1094 IPAL/P*FYFIVYLNILKYLFFF/DGVL LCPAWASAVA*SRLTATFAQSQV/KRFSCL SLLSSWYRSVP/SSLANFCIFSRDG/SFIV LAMLVLLNS*POVILLWPPLPKVL*LPIMEC SS1IAHCSLNLPGTSTNPASASK
4392	12443	A	5302	19	391 AYPLRGGRDFLRGGPSRSVSLLSVVPAR V*RRRRRLKEEARGAMTSASTKVGIEIFS AAGAATFKLGELEMQLHPLVADSSPAGA KTWTETEIEMRLRAAVKRFGDDLNHISCVI KOPDKGHGCTQG
4393	12444	A	5303	1	338 SLFSDSSLISGNTLAFLSWMLPYIPW ILQARPALGLHLLAAACNVVGQSAT*PS PSLPLGLCSSHSQ*GLF*PPVKISPLITD NPNPFDLHLMDIFQKTTIKSL
4394	12445	A	5304	3	180
4395	12446	A	5305	1	518 RAAQSPCSPWWSRLACSGGGGVIREEAR AMTSASTKVGIEPSAAGAATFKLGELEM QLHPVADSSPAGAKWTETEIEM/PEGCC EATWGRS*SHQLCHQGTDSGPDKGH*N ARYIEDFWASPPFA*VIPRKGPRRWAAG VFVHLLQLAPPPKQLP/VFPEGRGSPPIKE TERLM
4396	12447	A	5306	1	705 GAKFQRIRSPVPRTTGPGQLKCLEDKVSR LETEDBEKNNTVELLTDRUNRGRDQVD QLRTELMOERS/SSGRTWKCDKISLERQ NKKDLKTRLASSEG/SPESLVPASLSSLSPRI SCCRERLPABQRVKTVLRSTNRKLERKV N*LSLQIEDERHHVHSDTVKDQLSLRVKAL KRQVDEAKEEIERLDGLRKKAQREVEE QHEVNEQLQARIKSLEKDSWRK/GFPLS C*VSSQKRRALR
4397	12448	A	5307	831	1159 DVKSXSFFFLRLWSL/NPFAQAGV*WHD LSSLQLPFLHRFKQFSCSLLSS*DYVRVPP *LANFLYF**ROGFTMLARLASNS*PHDP PASASQSAGITGMSHRTQKKQIS
4398	12449	A	5308	296	526 FNCCCCEEFKKKPFCVSFLEGLERG*VK CQEHIPDTH***LLGLSEQINSDSRLRKEL NHFILFLEQLTCPHHSRER

4399	12450	A	5309	5424	5957YNFFLNEMGSCSVAQAGVQWHLNHSSLQ P*TLG*SSYHPASAS*VAGTVCTCHHVQL V/F/FFLR*SFALVAQAGVQWCDLGSLP PPPSGFERFSCLGLPSSWDYRPPPLJLJLVN FFFLYF**RWFITMLARLVSNS*PHDWP ASASQSAGITGMSHHVWLINFFNCKSLI FSNVRN
4400	12451	A	531	82	986TMNTRNRGVNSGLGASPASRTRDPQDP SGRQGELSPVEDOREGELAEAKPGPSRES VVHAGQRTTASYTLLAPNINRNRNEIQRIA EELANLEK WKEQNRAKPVHLVPRRLG GSQSETEVRQKQQLQLMOSKYKQKLKR EESVRKKEAEEAELOKMKAIQREKSNK LEEKKRLOENLRRFAFREHQYQKTAEFL /RQTEHRIARQKCLSKCCLWPTILNMQ KGLGLQDSLKAENRKLQKMKDQEHQK SELLERKROQQFQERAKIHQTEHRRVNN AFLDLR/RRQKSTRWPAJLWRLLEYE
4401	12452	A	5310	2	237IKRFSYLSLPNSWDYKVPSSMPG*FLYF* LR*GFTNVGQAGFPEIP*PQNDSNPLSSQS AGITGMSHVNRPLFVFYFLK
4402	12453	A	5311	36	386LNHHRKFMLLYVH*LLFLUFHF*DRVSV CHPGWSTVVSNGFETTAALTYWVVK*SS CFNPPCVSWEPRGACHIHALANFLICKN QVSLCLPRLVSNSTWVQAILPSWVPRRA GIYGV
4403	12454	A	5312	1	310FFFETEFSHSVQAQAGVQWQGDLGLL*SSP PGSSDSPASAS*ASGTTGA/QHHAQLJFV FSVETGFHPVSQDGLDLTS*SARLSLPK SWDYRHEPLAPGLGFTF
4404	12455	A	5313	598	882LIFFLFSFFFFFSFFFFFFFFFFFFFFFF FFFFFLLLLLLFLLLLLLFLFFFFFFFFFF LROS/LDVAQAGVQWRHLSLQALPPR FAP
4405	12456	A	5314	439	1169QSGHRYLYNLIJQVLCFTIFLFLRQDLAG L/TQAGVQWQ/CDSWQPRPPGLKGJPTSA AQVAGTIGMCHHTR*FFFFFFFFFFFFF FFFFFFFFFFFFLROS/LDVAQAGVQWR NLGSLOPLPFRKFRSCLGLPSSWDYRN APPHFANCCIF/M*RRGFTMLAKLVLNSSG DSPASASQSAGHGVSHARPPRYFKKYI FCDGGLTMLLGWS*TPLKQSSHGLGF NFWDYRCEPPCLATLFL
4406	12457	A	5315	1	222ETGSFHVTQAGV*WCNLGLLQPLTPGLK QFHSLSPPSSWDHKCPSCPANSFCITLG K*RRVSTMPLPPGWSQTP
4407	12458	A	5316	1	234LROSFAGWPRLECNGTIPAYCNLHLLGS SNPAPSPRRLIFVVLFMERYLVA*AG LELLSSSDLPWHRKVLGLQA
4408	12459	A	5317	1	196FFLINLTLIVTAQFIN*LDFIDSYSTICPK PPEYIFFSRA/PNGIFTKDHILGFKISLN KYKSI
4409	12460	A	5318	1	477SCWSPVWGHPPRDREPPPS*LGIQSSPG VPOAALPPWPSPASHQASATWAVALPLPP LOGPAREPPCPHLLRRLHVQPTKTSAVSIL SAPPPLPPG*DLP.EPASFSQWACKGINKCL QGLGLVCRRIEHKDLGLGLFGLGPLVLAM VEVRGVDLTENNSGASVPRGE
4410	12461	A	5319	139	398FYFYFYFYFLROSCSVNQAGVQ*HCLNSL QFPPPFKRFSCLSLPSRWDYKCPPCITP NFCVFS/EMGFLHVQAGLELMTSGDPP GFG

4411	12462	A	532	122		1340	EAASKTTKDNCISWKDDTIGCKEMPTISE NCPSFALHQKISUDRNHGECREYKGKTLQ DKSPVQHERIHSSEKPNRCKECGKNNFSN GHQLTIHQRJLHVGEKPVYKEKCGKAFPS GSASFVKHGRHITGEKPLKCKQCQGKTISG SYQLTVHKSIHTGKPKYECGECGKAFALV YGKLTRHQSTHGEKPVGCCECGKAFAST FSYLVHQHRIITSEKPVYECGECGKAFSTS SPLAKHRIHTGEKPVCECKECGKSFVY GQLTRIQSHTGKEPVSISHAEKPVYRCK ECGRFTSRASYLVOHGRHTGEKPVYEC ECGKAFSTGSVLYVOHQHRIITGEKPVYEC ECGKAFISRHOLTVHQVHTGEKPVYEC ECGKAFRVHVHLTQHRKIHTDVKPYEC KECGKTFSRASYL
4412	12463	A	5320	11		137	RWGFITKLPLRVSNNSWPQAIISPLWLPKVL NNHREALYPSLYYISKTYEGQFRNRLYR GTCIQDYLWRLYLLFLFIFETESTVIRLEC SGSOPPPPRFKQFTCLRLHSSWDYRWP PPWPWPNFICSRVOTGFHIVHGQAGLDLV DLCDPPASASOSACITGREGHPAPGTYLW EGFCKSFKSRA*RSTLFFPLH
4413	12464	A	5321	1		293	LERMSFGHQTKEDELQENTIFLATEVOIQ PNFD*TEAKAFRKLCSYRKEDRUDVH QLTCDPYLMPHMRMMSVSTCSPAGAAIAS TSGASSSSSSN
4414	12465	A	5322	3		291	
4415	12466	A	5323	14		943	HRILEPLIFHFFFFFSSAPPPOPELLY/PASL TLAPSPGREEVYPLPARLPLSPRWEPLQV WLALGAVKLPLSPWPWSGPNGLKGKPGT PKRRLGALFCHMPGILTP/WMPGARWTK PANPPST/TPVPPKDG*KLQPGGLRKGPK GPERGVNP/PCP/RSPRPPYLLC*PQTLVR A*CFPIPKMSFTGHSPCRASLGHLE/VOH GPILWPRVCQRKRSRAFFVLFFFKGACLF INVNNRKP*YLCFCNTE*YFNVHVLVDVHNI FITKQEST*PWLPRGVSWLGAGGGYYQG AWDREAPPPRPIPKLPLPTLASRMRSCHL
4416	12467	A	5324	12		486	
4417	12468	A	5325	51		390	DGVLPSLGLWEVCMCGSSAPLRLSPVDR DGMWGVCHPGWSIVAQSQFTAASNLL ASRAT/LSLPSSWDYRRVPPHSAHFKFL *KGWGLAMLPLRLVLSNSWSQVILLPQPPKV LEL
4418	12469	A	5326	279		380	
4419	12470	A	5327	618		818	
4420	12471	A	5328	1		197	
4421	12472	A	5329	2		498	CPRMTPKDFQ*PVLUVTINLLGHVIDIKW MSIAFINDRAWPSAFAVPSDENHARIQCDG QHFRFVSVESELPDDETIVSSTVLDLHDQ LGPPPPAEPDPLQLLQLQFLGGLQJSCV VGFGPWRGLSSARDQNMIVMSIWHVKVR PQSPLRAYVWPLRYCILPSRRATVN
4422	12473	A	533	456		824	DRVSLSPRLFCGVILAQCNLHLP/GFNR FSVYLGLPSRLGITGHAPLCLGQFFFVFLVE DGGFHIVHQAGLIELTSSDPPTSAVPKC DRYRHEPLRLACCSFLQKENIHNICWVRI YRJFQTN
4423	12474	A	5330	600		811	PWLSLSPWHFNFQRKEKKK**DIVKREK PLMGLSLTISI*MQSKPKEHQINLKSIE K*LQDLSQYFGR
4424	12475	A	5331	1		75	FFFFFFFFFFKLMAMFVFLFFFSK*KEIVLS QFLFWFL/FLYVVFSLKVALKISDRIKST FLRVALFFFNLNSWEFCGSTAAPSVSML CMF*LLL*FFFFFFFKLAMFVFLFFFS SK

4425	12476	A	5332	949	1711	VTIPLIPDLKGSSCVGPPKP*DCRHWTPC LTLIYFFFFKVESPSVAHAGVQWHDSSL LTLSPDQV/HSPVSAF*VAGIQGMHMHHA RLJ/FFFFFFFLRQSLSSVAQAREQWCYH GSLOPPPSGKRFSCSLSPSSWDYRCPPP HLA/DFFVFLIEMGFTMLTRLVSNSP*CQ/C DLPASAQSQTAWITGSHRAWLNFCCFISI YGVSPCWPGWSLITPDLK*SACSLP*CW DYKCEPPCAQFTFRKDSDADVYCSV
4426	12477	C	5333	11	154	MECSRVARLENGNAISAHCNLHLLGSND SPASASRVAGTTOTATTPQ*
4427	12478	C	5334	163	270	MNKKMESLFYCFNADILIKQDYFHHQHL YIYTKPV*
4428	12479	A	5335	92	404	WLQJCVSGCICIT*WALYJCINVVVVKVV LFYEDVCIKAVK*AHFIFHNLMCVYICM CVCVWNIEGLYIPFQRYIHMAVLHRSN SQTPGSIYKFKISFIGI
4429	12480	A	5336	2	1100	FALAARLQEFGRKRYFTESGLVGLLEQA AASFMSAGMYEAVNEVYKVLPJHEAENR DAKKLSTHKGKLOEAFSKVHQSTGWER MFGTYFVRFGYTGKFGDLDQEFVYKE PAITKLAEIISRLEGFYGERFGEDVVEVI KDSNPVDCKLDPNKAQYIQTITYVEPYFD TYEMKDRITYFRQKLQSSVRFMYCTPFT LDGRAHGGTSMEQFQKGRPILDYVVSCL FPYKTRG/PMSLJRKRSSLLHFPFEVAIED MOKKTQELAFATHQDPADPKMLQMLQMV QGSVGHQVNQGPGLGSCPGFCSGNT** PKALSDIH*KLATLAFKDFTKRCEDALR KNLSLGPDKQKEYQRELGEKLSSALKRA LPAI
4430	12481	A	5337	48	1057	RCWENCTSTCKTMSKSDPYLRYTINTSK WIKDLNVRPETIEENIGEKFLDMTLGND FLDITPKAOSTTKTKDKWDYIJKPKSF/CTV KETV/NKMKQ*PTDW/WKIFVRHIYKGKL VSKTYKEPIQLNPKWAKDLKRHFSEDD TQMANRYIKGCST*LIKEMHFKNHNSKY YLSPLVRLAVIKKNNNNKC/W*WCGIKGT L/LHCWWECRLVQWPWKTEWKFLRKJK LPYDPAIPLLGIYSK*MKSPCPCKYICS/RV FIAALFIV/A/K/TWROLKCP1/V/*IRKL.CI YMPYTPMEYYPPLKTKNPTISCHLLPT WMGLKDTVLNEISQTEKKILHNFTIYVES KKKI
4431	12482	A	5338	2	409	PLALALAMAYPSCPAGDAHGPPRPGPLSP PS*PASVP/TSP/PQSSA*FLCPQSYVPEGL TPRILPAGGGHVPCSRSPSSPGLASVSP RWGALLLPGCPCTISLSSGCRKGRASPRA HPPPTASLCTALWPPCFSPP*PGVGLGNG LSSLPRRCTWPAARSTVSSLLACLCPPS PLNLLRDSSVLSHTQRLGRSPHGFVPLEGA MPAPALPPHQALPRVYQPPGELCCCLD HALLPSPRDVGKGPPALELTHPPQQACV LRSGLHLASRLHNL
4432	12483	A	5339	32	323	KFHLLGGGGWFPPFLPPGPGGARGVGS*VR GFRPWPAPPNPPFFPKQNSPGLVVFAF RPSSSGC/PGPGNSPHPGGQGFG*QKFRP CPASAWGTKGFP
4433	12484	A	534	1	2278	
4434	12485	A	5341	4	329	IIAHCKLKRPSNNDPQPSSWDCRHAPP HPAN***EMGSCHVAQTSQQTPALNPS RYPPTASOGAEITVMSJICAQLYPCFLT KEK/FSHS*IRRTLJSETNSGEY
4435	12486	A	5342	3	274	FOSQNIKLNLMGVLFCFETEHSVIT*AG LQLWDLSSLQPPPPGFKQ/FSCSLLSSW DYSRSPRGPVNFCIFSGDEVSPYWSGWS QTSDLK

4436	12487	A	5343	1	1075	MVDGTLILLL1SEALALTQWTWAGSHSLK YFHTSVSRPGRGEPRFISVGVYDDTQFV RFDNDAAASPRMVPRAPIWMFQESEY DRETRSVARDTAOIFRVNLRLTLARL/Y*QS ERRPGSHTL/QWMHG/CELPDUNASFRG YEOFAYDGDYLTLNEDLRSVTAVDTA AQISEQKSNDASEADHQRPVYLOA7TFVDS FPK*LYEGKEITFLHEPPKTHVHHIPISD HEATLRCWALGRYPAEITLTWQQDGE HTQDTELVETRPAQDGDTFQKWWAAVV SCEEQRYTCVQHEGLPEPVTLRWEAR FSPPI/LPSWASLLGLVLLGSVSEAVV AAVIWRKKSSSGHFPLPGKGGSYFKG
4437	12488	A	5344	58	426	KLQLL*FFFWWFCFLFTYFLETVECSGAI AHCISLKLGGSSIAPPASASLVAKITGACHP AWL*VVLVILFKRKWOSHKLMLVEKRF LSEQILSVYHFRVPLLQNDRNLAQILG RKREMY
4438	12489	A	5345	3	284	KKILRKKILRKSSV*I*D*SSQOPENIP*KQF LSNHPKCTTILSMRNMSIMMKGGRISEV FIKLFFPSLLLSHLLVIEWGLYIEIYLTTPN NTF
4439	12490	A	5346	2	225	TLPTCLSTSTSPWASSQEREMSPGDG+P VG*PPLTAVPCCSVWGLRLR*GERTKLG IGAAGGFHSYDGNQT
4440	12491	A	5347	3	104	WSTVARS*LTTATCSCPCLSPSSWWDCCR PPCLA/SFHFOYIALNN*A*AIIQPQPSKVL GL*ASALQVAGTAGVYHHIAW
4441	12492	A	5348	2	392	TGKNEIYICIFIDLEYO*KIJGLLHIGDKE EYS/WNSGYFIGYCLELPCPVVKVSGN*N DSIEAAVLMTPSKIKI*VTLQSKEASPIK VLTQVIGDIKGILENGLHYKYQL*QFFKLQ KGNDNH
4442	12493	A	5349	2	67	AAED*HCPIASETYKTITELWVTLPV KGVPFLINTEATHSTLPSFOGCVSLASITV VGIDGQASKPLKTPQWLQCLQGQHSFMH SFLVIRTPAPPLGRDILTNLSASLTIPGLE PHLIAFCSSSKPPSHPLVSLHLKPVQ*DL RLGNLQDHJRCFG
4443	12494	A	535	750	1053	PSTLSSLSRHDDEATRST*SEGLEEGEV EGETLJIVSEEDQASVLDLSHDQSGGIS LNSDEGDVSWMEEQLSIYFCDCQKWI ASKELLKSFDSLIPV
4444	12495	A	5350	2	275	EIESCSVAIRLECSGMISAHCNLCLPD TGSAPAS*VAGIGAACHHQALIIPVFLVET EFHHVFIHHVQQAQLEFL/NLVIPIPPRPP AKLGLQG
4445	12496	A	5351	3	1031	SSAPEAAKKPITCCHRRCGLVDKFNQGM VDTAKKNGGGNTAEEKTILSKYSESS RLLIELEGLCESDFECNQMLEAQEEHLE AWWLQLKSEYDPLFEWFCVKTLKVCC VGTIVGPDCLAACOGGSQRPICSGNGHCS GDGSRQGDGSCRCMIGYQGPLCUDCM DRLLQLRSRNETHISINCTACDESKTCFC GP*PTGLRRLRSCEVGIWVLDGACV KCAAQTPPCSAAQFCKNANGSYTCEAG DSSWVGCPGKGPGNCKQCISGYAREHG QICADVERVPH*PEKTLCEEKTKTCYNT GISYVCVCPDGFET/RRCLCAAGRRLK PKQKGESEPTQLPLP
4446	12497	A	5352	206	330	KMLQLALQSCIKVRTLNSRHLGAGVTA HEE*CPCCCHPMIKQ
4447	12498	A	5353	1	8271	
4448	12499	A	5354	2	10028	